



# PARTS CATALOG

## TRACTOR

# ***Simplicity***®

A Division of Allis-Chalmers

# MODEL 9523

**This manual applies to Simplicity Model 9523,  
and Allis-Chalmers Model 5020**



**FOREWORD****ALPHABETICAL INDEX**

The alphabetical index is located at the front of this catalog. It is used to locate major groups, assemblies and components.

**NUMERICAL INDEX**

The numerical index is located at the end of this catalog and indicated on which page or pages a part number appears.

**ILLUSTRATIONS**

All illustrations are located on the left hand page with the text on the right. Except for some common hardware, all parts are identified with an item number which corresponds to the "item" column on the text page. This is followed by the part number, quantity and description.

**HARDWARE**

Common hardware not identified such as bolts, nuts, cotter pins and lube fittings, are listed indented in the text beneath the item which they attach or fit into. Common hardware listed indented beneath an item is NOT included unless specified. Example: (Incl. BOLT, LOCKWASHER & NUT).

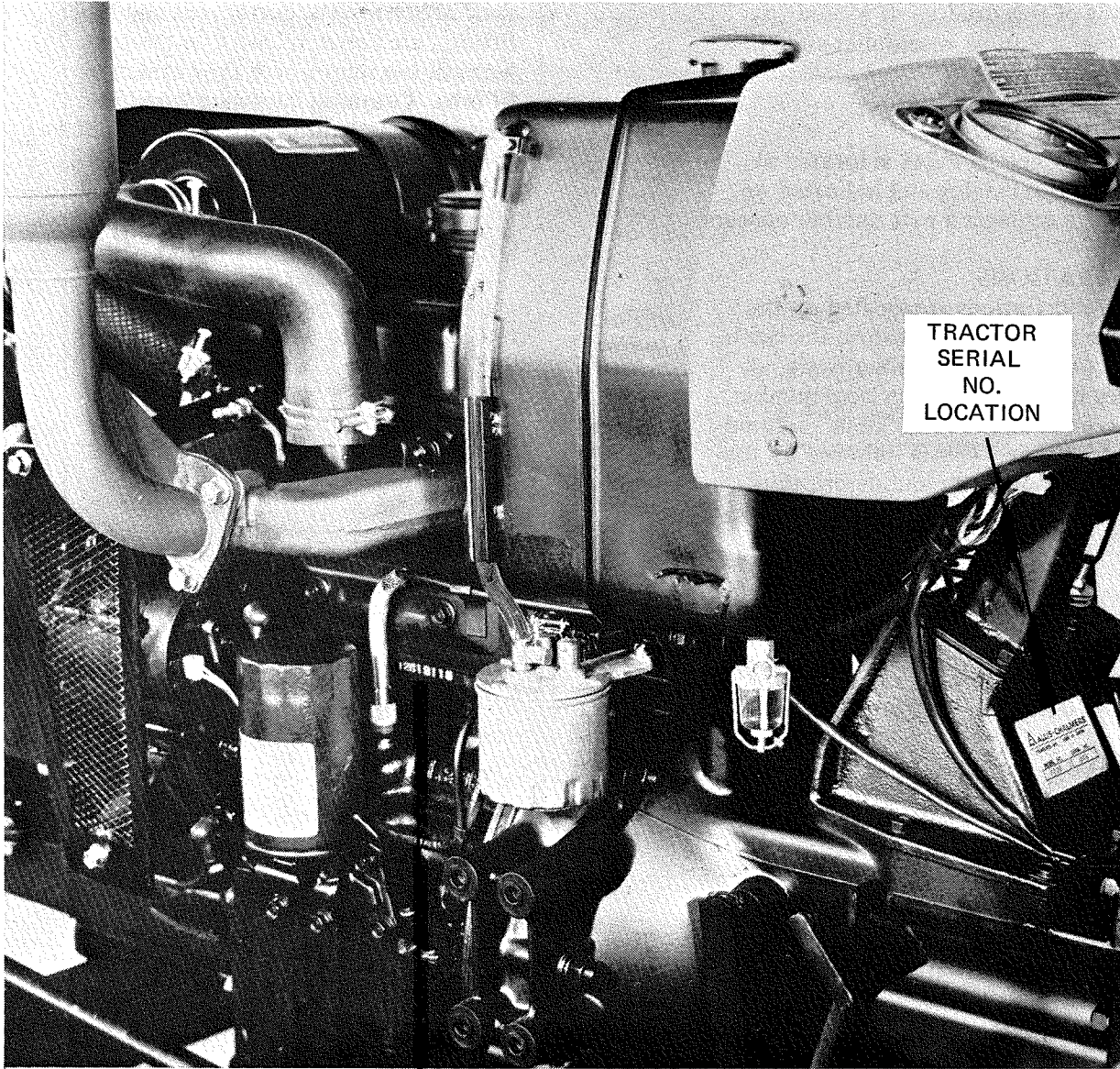
**ORDERING PARTS**

Be sure to refer to both the text and the illustration to assure ordering the correct part.



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SERIAL  
NO.  
LOCATION

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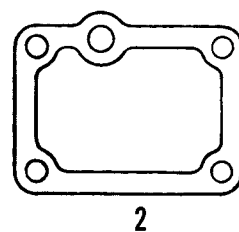
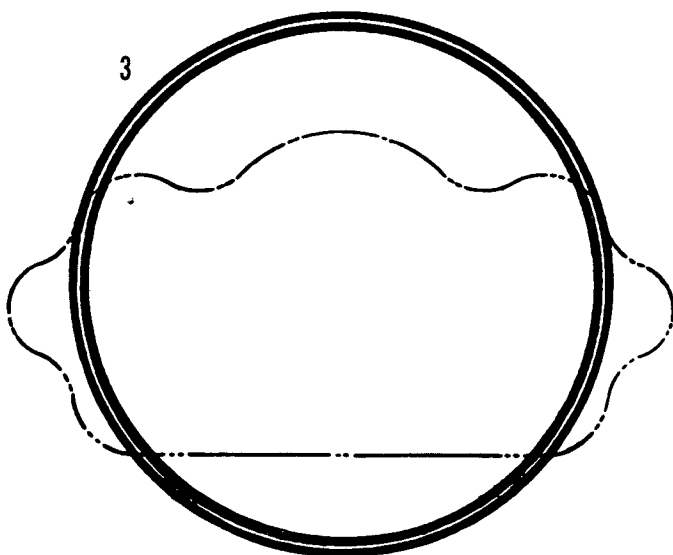
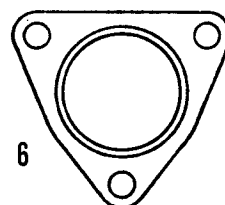
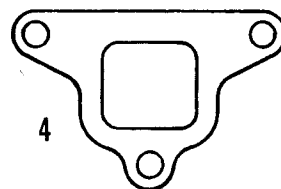
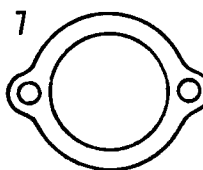
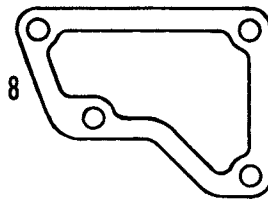
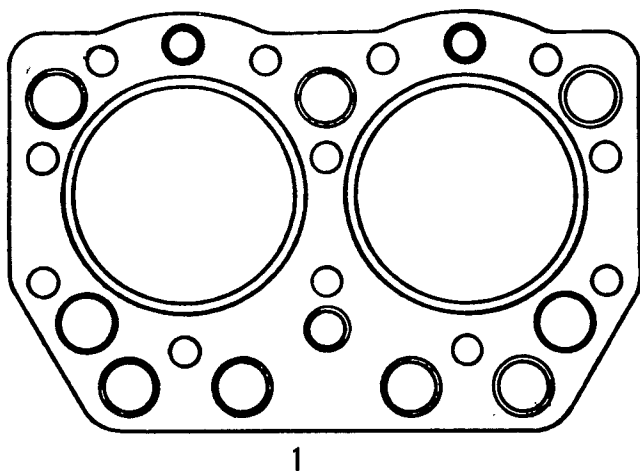
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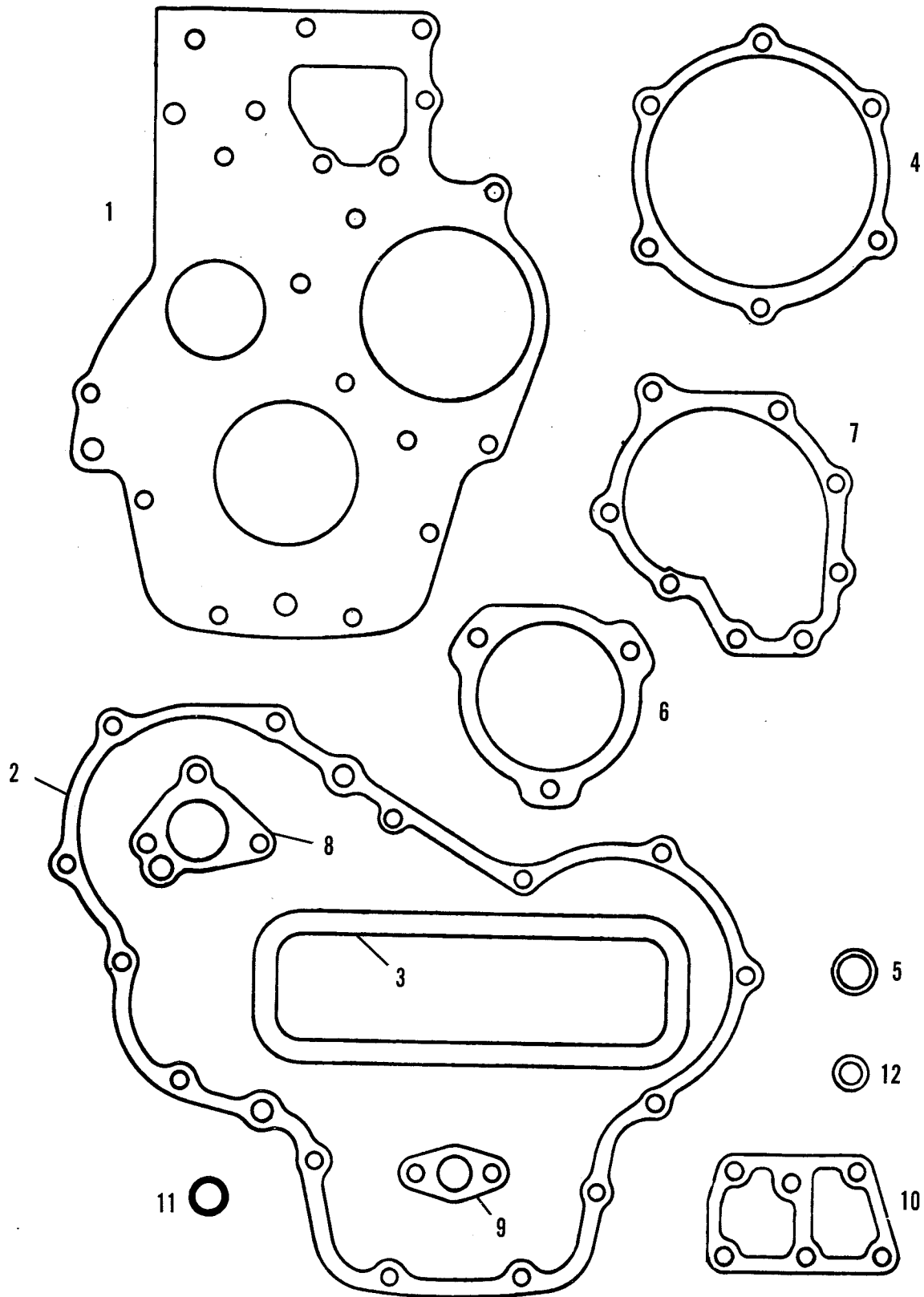


**5020 TRACTOR**  
ENGINE

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**GASKET SET**  
CYLINDER HEAD

ITEM	NUMBER	QTY.	DESCRIPTION
—	2097707	1	GASKET SET, cylinder head
1	2097502	1	GASKET, cylinder head
2	2097504	1	GASKET, water cover
3	2097518	1	GASKET, cover , cylinder head
4	2097673	1	GASKET, intake manifold
5	2097676	2	GASKET, exhaust manifold
6	2097677	1	GASKET, diffuser
7	2097516	1	GASKET, water outlet
8	2097515	1	GASKET, water inlet
9	2097663	2	GASKET, fuel injector

GASKET SET  
INTERMEDIATE

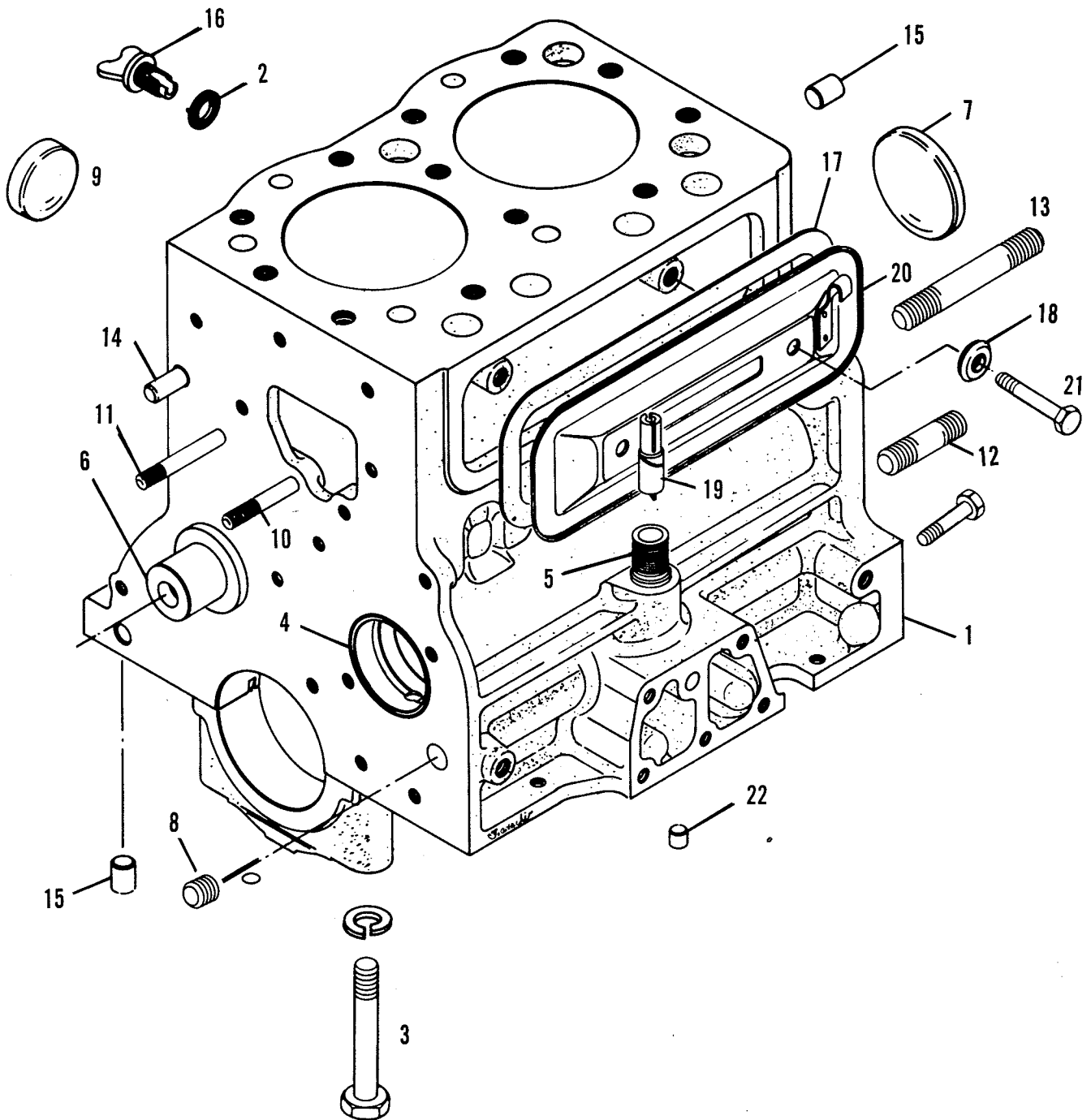
**5020 TRACTOR**  
ENGINE

**5**

**GASKET SET**  
INTERMEDIATE

ITEM	NUMBER	QTY.	DESCRIPTION
—	2097536	1	GASKET SET,
1	2097634	1	GASKET, front plate
2	2097635	1	GASKET, gear cover
3	2097523	1	GASKET, chamber cover
4	2097527	1	GASKET, rear oil seal
5	2097533	1	GASKET, oil drain
6	2097641	1	GASKET, injection pump
7	2097655	1	GASKET, water pump
8	2097679	1	GASKET, oil pump
9	2097680	1	GASKET, oil suction tube
10	2097692	1	GASKET, oil control housing
11	2097698	1	O-RING, oil control housing
12	2097701	4	GASKET, lube oil tube

## CYLINDER BLOCK



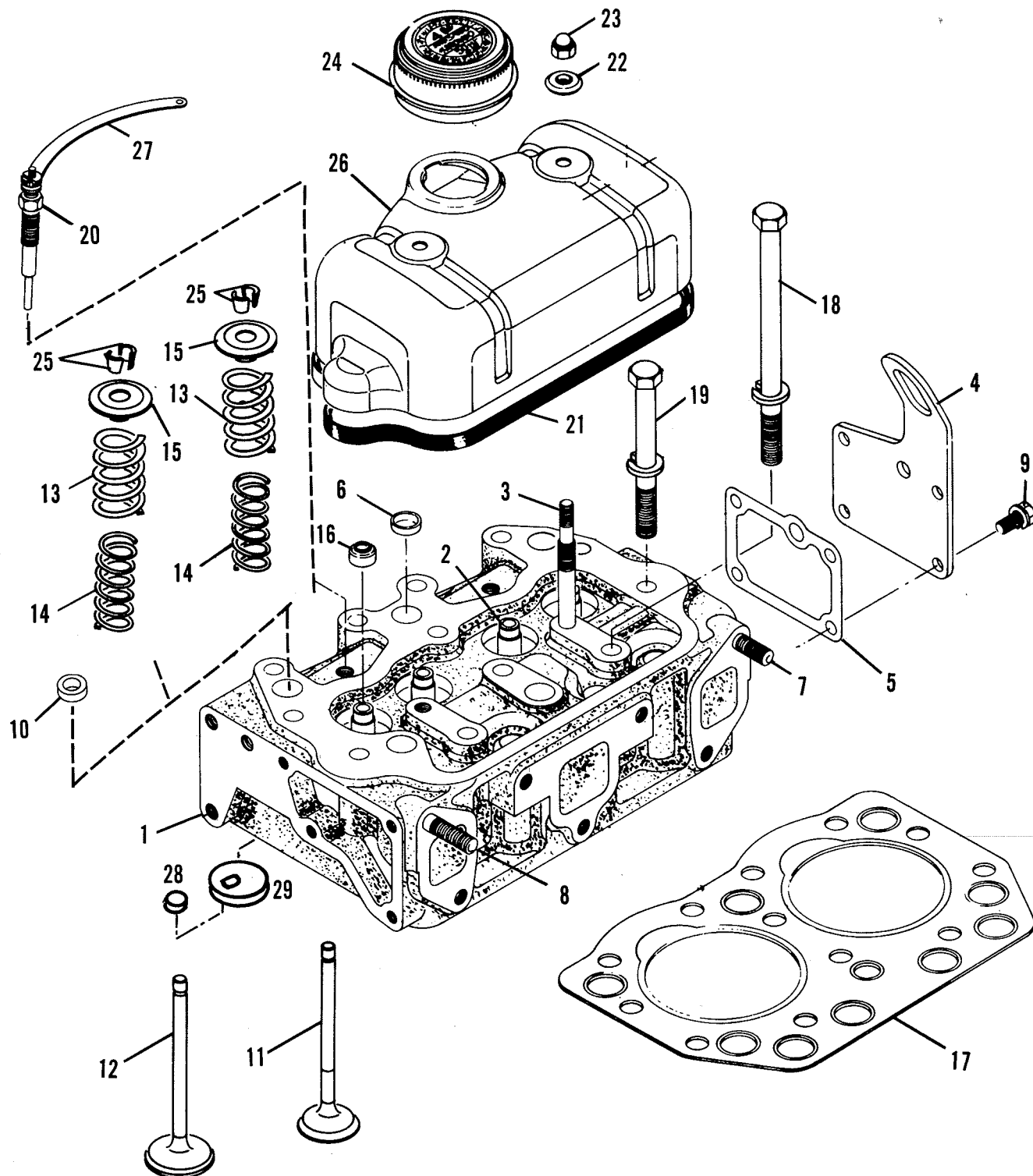
**5020 TRACTOR**  
ENGINE

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**CYLINDER BLOCK**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098606	1	BLOCK ASY., cylinder (Incl. Item 3 thru 16)
2	2097709	1	GASKET, water drain plug
3	2097618	6	BOLT, M12 x 82 bearing cap
4	2097538	2	BEARING, cam shaft
5	2097539	1	CONNECTOR, hour meter cable
6	2097540	1	SHAFT, idle gear
7	2097541	1	PLUG
8	2097542	2	PLUG
9	2097543	3	PLUG
10	934080	3	STUD, M8 x 64 water pump
11	934079	2	STUD, M8 x 66 gear cover
12	934101	4	STUD, M12 x 38 rear plate
13	934082	4	STUD, M12 x 113 clutch case
14	934083	2	PIN, dowel, front
15	934084	3	PIN, dowel, rear
16	2097530	1	PLUG, water drain (Incl. Item 2)
17	2097523	1	GASKET
18	2097613	2	WASHER
19	2097531	1	ROD, cable drive
20	2097534	1	COVER, valve lifter chamber
21	934085	2	CAPSCREW, block cover
22	2097619	2	PLUG M9 x 7
—	2097966	1	ENGINE ASY., complete
—	2097558	1	BLOCK ASY., short (Incl. CYL. BLOCK, CRANKSHAFT & BEARINGS, CAMSHAFT GEAR & BEARINGS, VALVE LIFTERS, CONNECTING RODS, PISTONS, PINS & RINGS, CYLINDER SLEEVES, & SEALS. Order Gasket Sets and Oil Seals as required.

## CYLINDER HEAD

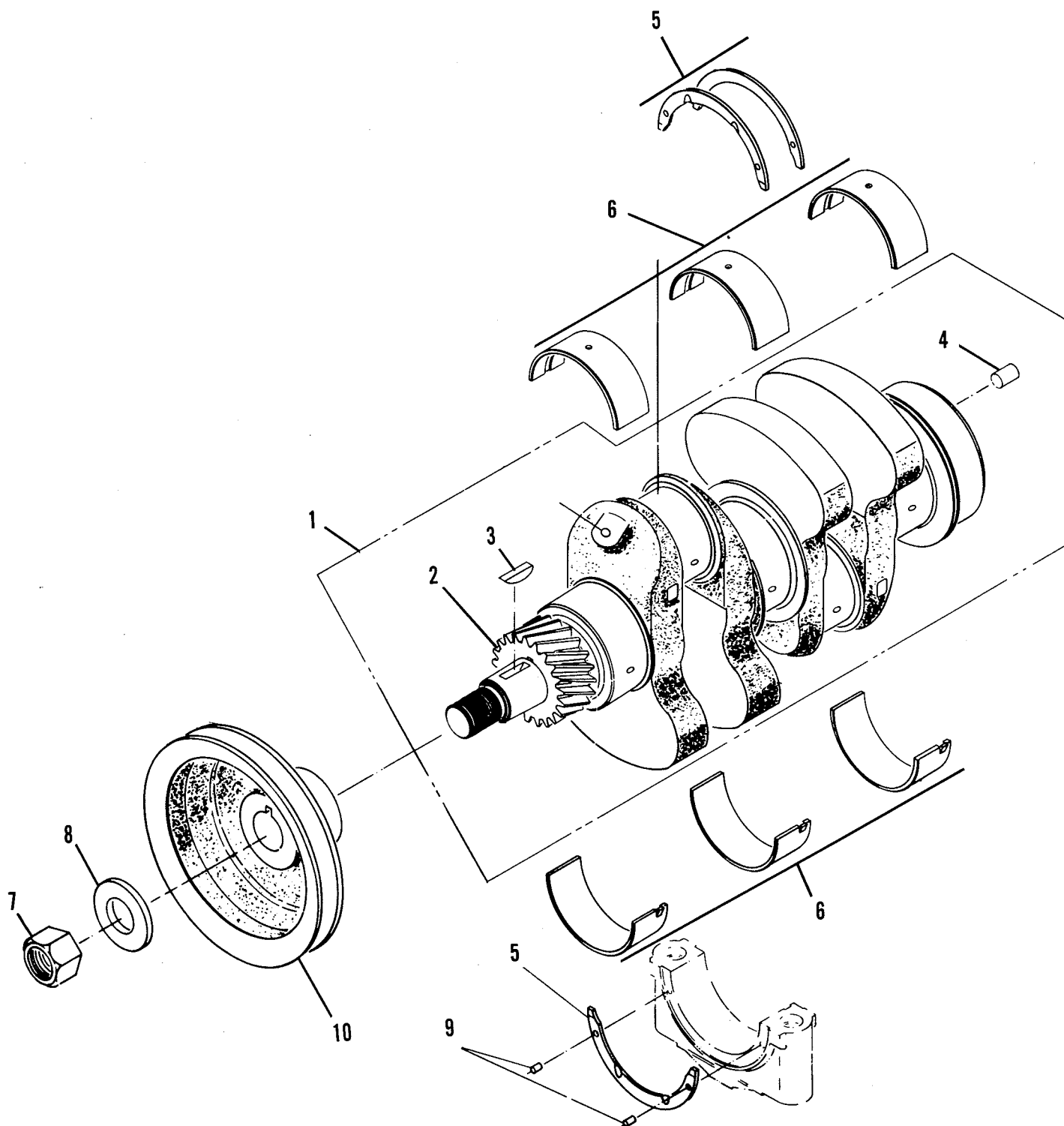


5020 TRACTOR  
ENGINE

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CYLINDER HEAD

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098605	1	HEAD ASY., cyl. (Incl. Items 1 thru 10)
2	2098316	4	GUIDE, valve
3	2097608	2	STUD, M10 x 102 rocker bracket
4	2097503	1	COVER, water
5	2097504	1	GASKET
6	2097609	3	PLUG
7	2097610	6	STUD, M10 x 37
8	2097611	1	STUD, M10 x 49
9	934044	4	CAPSCREW, M8 x 18, w/ lockwasher, water cover
10	2098056	4	PLUG
11	2097587	2	VALVE, intake
12	2097588	2	VALVE, exhaust
13	2097589	4	SPRING, valve, outer
14	2097590	4	SPRING, valve, inner
15	2097591	4	RETAINER
16	2097501	4	SEAL, valve stem
17	2097502	1	GASKET
18	2097607	2	BOLT, M12 x 162 cylinder head, long
19	2097537	10	BOLT, M12 x 115 cylinder head
20	2097517	2	PLUG, glow
21	2097518	1	GASKET
22	2097613	2	WASHER
23	2097614	2	NUT, cylinder head cover
24	2097509	1	CAP, oil filler
25	2097606	8	LOCK, valve spring
26	2097812	1	COVER ASY., cylinder head
27	2097519	1	PLATE, plug connecting
28	2098381	2	INSERT
29	2098382	2	PIN, insert

**5020 TRACTOR**  
ENGINE**CRANKSHAFT**

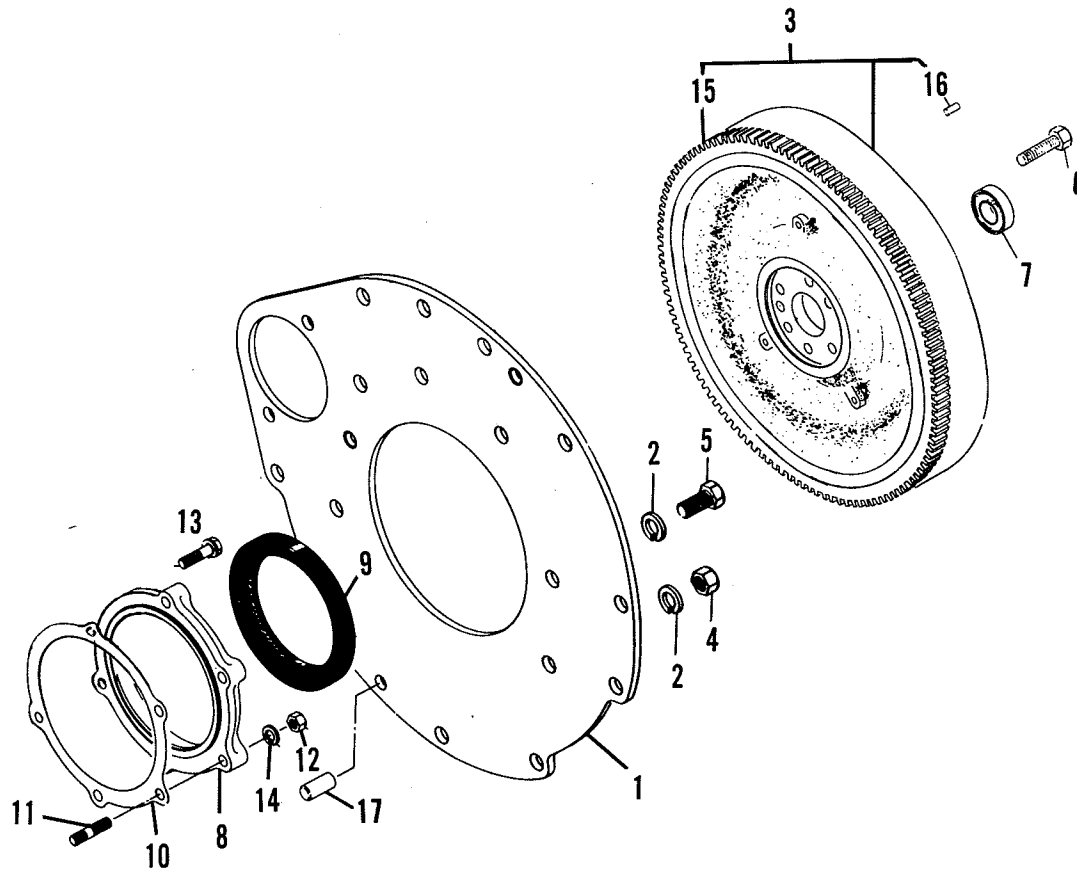
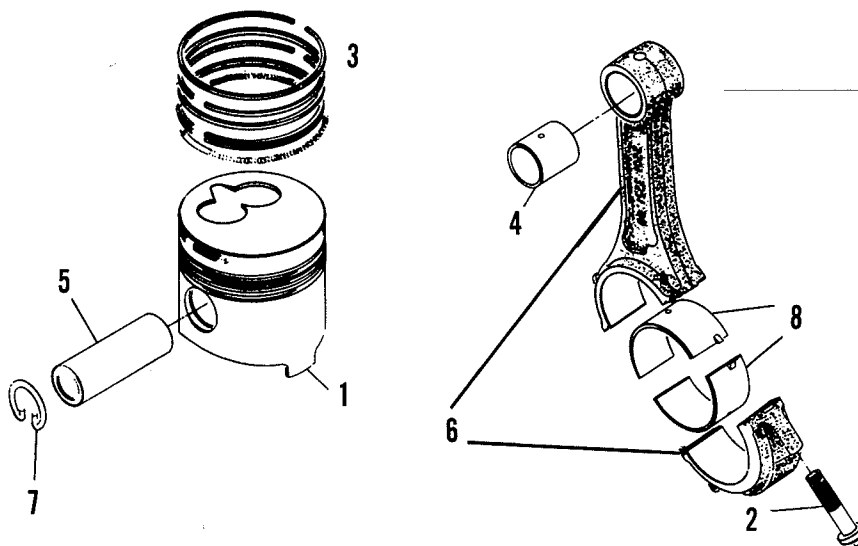


5020 TRACTOR  
ENGINE

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CRANKSHAFT

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097582	1	CRANKSHAFT ASY. (Incl. Items 2 thru 4)
2	2097584	1	GEAR, crankshaft
3	934072	2	KEY
4	934096	1	PIN, dowel
5	2097554	1	FLANGE KIT, thrust (Std.)
	2097555	1	FLANGE KIT, thrust (O.S. 0.25)
6	2097548	1	BEARING KIT, main (Std.) (Incl. 3 UPPER & 3 LOWER MAIN BEARINGS)
	2097549	1	BEARING KIT, main (U.S. 0.25) (Incl. 3 UPPER & 3 LOWER MAIN BEARINGS)
	2097550	1	BEARING KIT, main (U.S. 0.50) (Incl. 3 UPPER & 3 LOWER MAIN BEARINGS)
7	934088	1	NUT
8	2097578	1	WASHER, pulley
9	934087	4	PIN, thrust flange groove
10	2098607	1	PULLEY, crankshaft

**5020 TRACTOR  
ENGINE****FLYWHEEL & ADAPTER PLATE****PISTON & CONNECTING ROD**

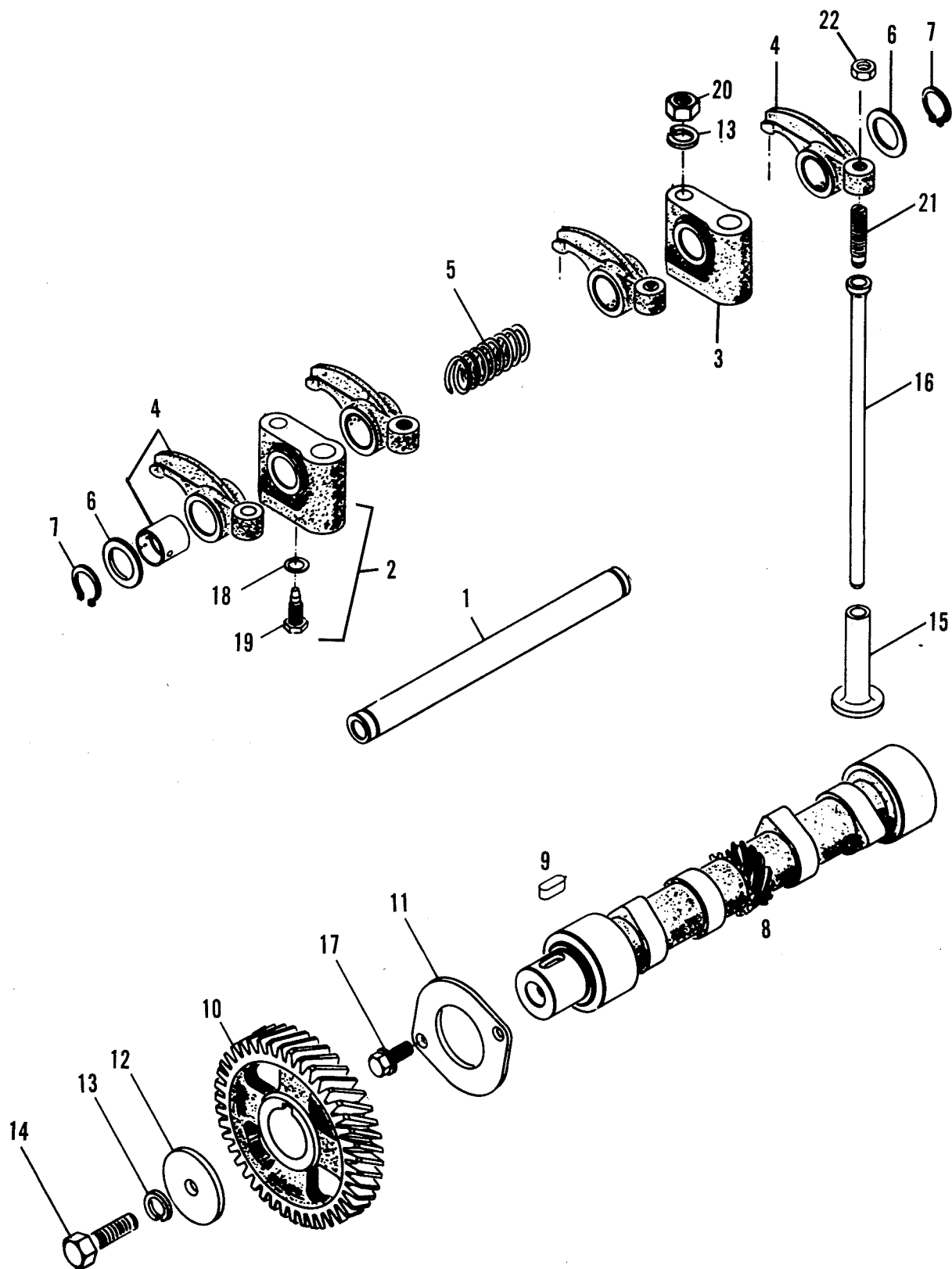
## FLYWHEEL &amp; ADAPTER PLATE

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097528	1	PLATE, rear
2	934042	6	LOCKWASHER M12
3	2097577	1	FLYWHEEL ASY. (Incl. Items 15, 16)
4	934030	4	NUT, M12
5	934017	2	CAPSCREW, m12 x 25
6	2097620	6	BOLT M10 x 34
7	2097586	1	BEARING, ball
8	2098609	1	COVER ASY., oil seal (Includes Item 9)
9	2097526	1	SEAL, oil , rear
10	2097527	1	GASKET
11	934022	3	STUD, M8 x 36
12	934028	3	NUT, M8
13	934047	3	CAPSCREW, m8 x 30
14	934040	3	LOCKWASHER, M8
15	2097579	1	GEAR, ring
16	934086	3	PIN, dowel
17	934103	1	PIN

## PISTON &amp; CONNECTING ROD

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097556	2	PISTON, std.
	2097557	2	PISTON, O.S.; 0.50
2	2097574	4	BOLT, connecting rod
3	2097545	1	RING SET, std.
	2097622	1	RING SET, O.S.; 0.50
4	2097576	2	BUSHING, rod
5	2097568	2	PIN, piston
6	2097573	2	ROD ASY., connecting (Incl. Item 2 & 4)
7	2097569	4	RING, piston retaining
8	2097570	4	BEARING, connecting rod, std.
	2097571	4	BEARING, connecting rod, U.S.; 0.25
	2097572	4	BEARING, connecting rod, U.S.; 0.50

## VALVE OPERATING MECHANISM

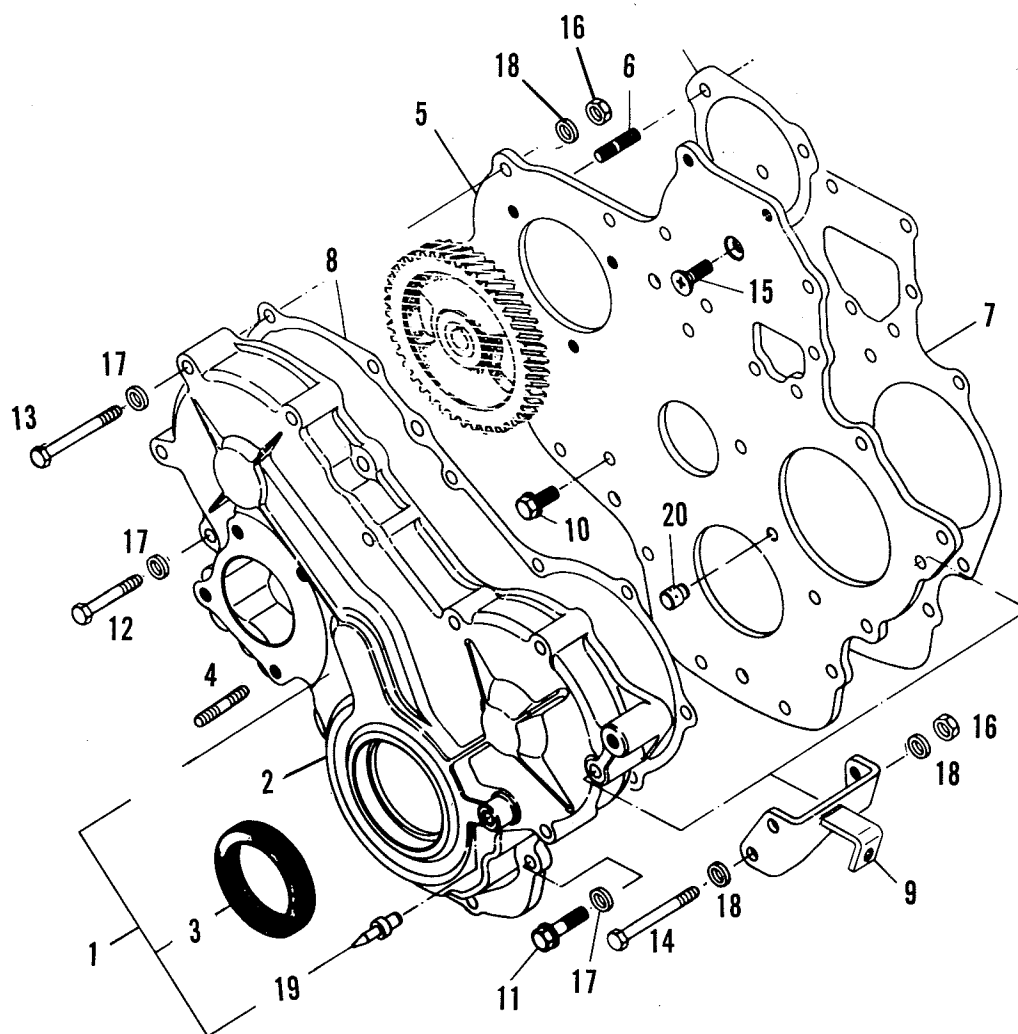


VALVE OPERATING MECHANISM

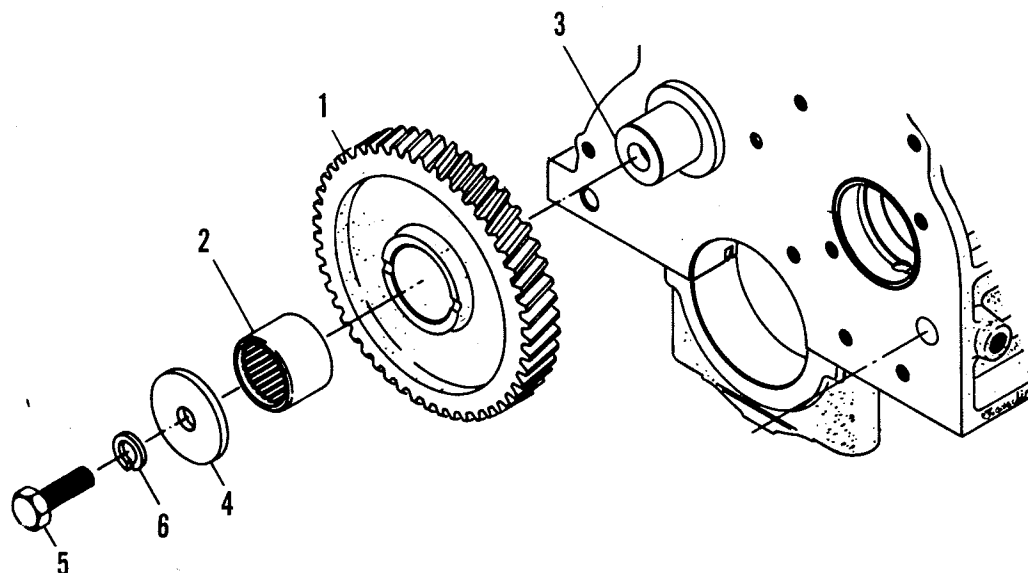
ITEM	NUMBER	QTY.	DESCRIPTION
1	2097594	1	SHAFT, rocker arm
2	2097598	1	BRACKET ASY. (Incl. Items 18, 19) support (front)
3	2097599	1	BRACKET, support (rear)
4	2097596	4	ARM ASY., rocker
5	2097600	1	SPRING
6	2097601	2	PLATE, rocker adjusting
7	934093	2	RING
8	2097605	1	CAMSHAFT
9	934094	1	KEY, camshaft gear
10	2097507	1	GEAR, camshaft
11	2097506	1	PLATE, thrust
12	2097626	1	WASHER, thrust
13	934041	3	LOCKWASHER, M10
14	2097620	1	BOLT, M10 x 34
15	2097603	4	LIFTER, valve
16	2097604	4	ROD, push
17	934045	2	CAPSCREW, m8 x 20 w/lockwasher
18	934014	1	GASKET
19	2097593	1	BOLT, M8 x 45 lock
20	2097710	2	NUT, bracket
21	2098345	4	BOLT, M9 x 39 rocker adjusting
22	2098344	4	NUT, lock

# 5020 TRACTOR ENGINE

## TIMING GEAR COVER



## IDLER GEAR



**5020 TRACTOR**  
ENGINE

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**TIMING GEAR COVER**

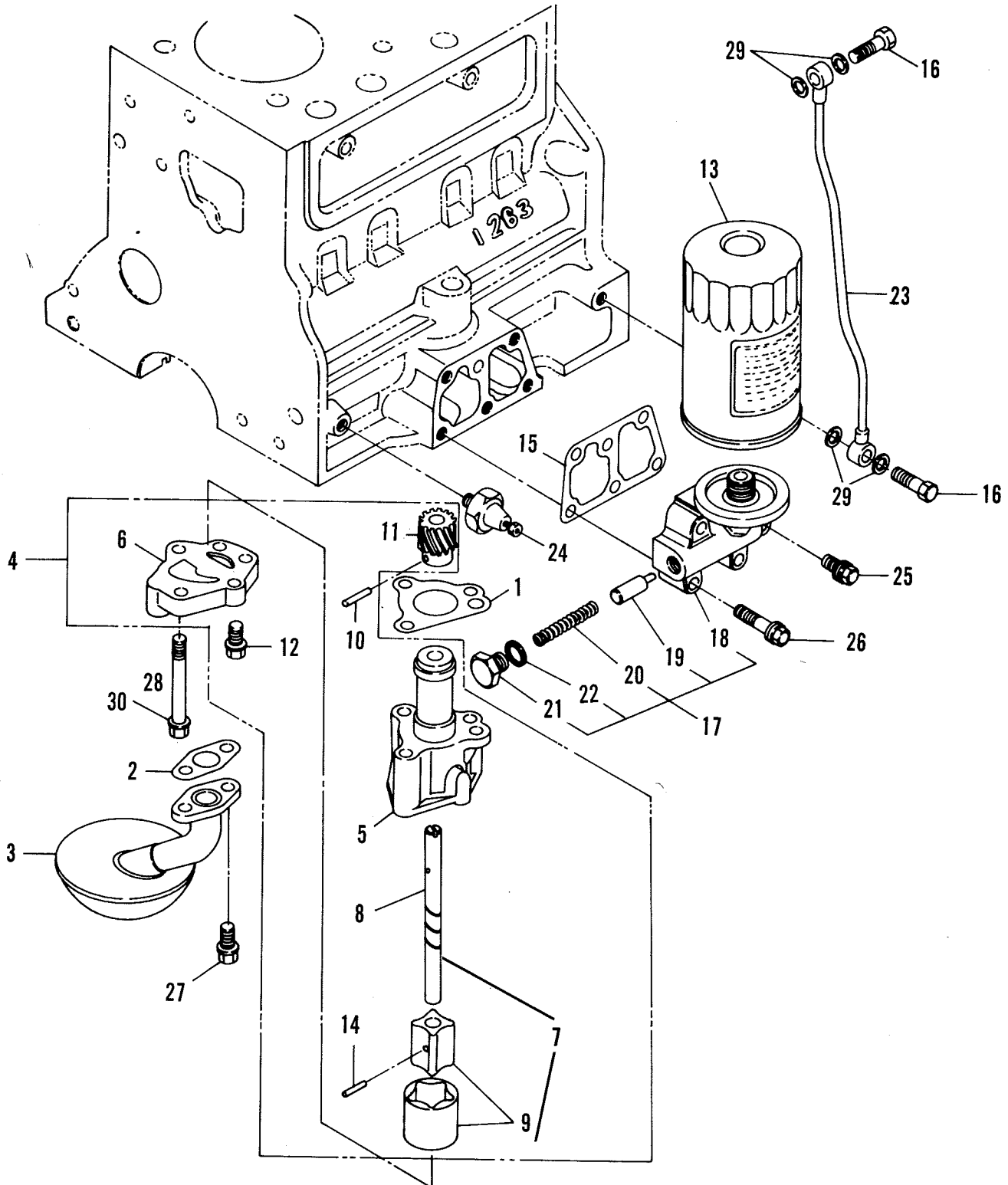
ITEM	NUMBER	QTY.	DESCRIPTION
1	2098608	1	COVER ASY., gear (Incl. Item 2 thru 4 & 19)
2	-----	1	COVER, gear (Not Serviced; Order complete Cover Asy. 2097629)
3	2097630	1	SEAL, front oil
4	934021	4	STUD, gear cover
5	2097632	1	PLATE ASY., front (Incl. Item 20)
6	934021	3	STUD
7	2097634	1	GASKET, front plate
8	2097635	1	GASKET, gear cover
9	2097662	1	BRACKET, generator
10	934045	3	CAPSCREW, m8 x 20 w/lockwasher, front plate
11	934047	4	CAPSCREW, m8 x 30 w/lockwasher, gear cover
12	934089	2	CAPSCREW, m8 x 45 gear cover
13	934090	5	CAPSCREW, m8 x 55 gear cover
14	934091	1	CAPSCREW, m8 x 60 generator bracket to gear cover
15	934117	1	SCREW, M8 x 20 front plate
16	934028	8	NUT, M8 gear cover
17	918265	14	WASHER, M8 gear cover
18	934040	10	LOCKWASHER, M8 gear cover
19	2097631	1	POINT, timing
20	2097633	1	INJECTOR, oil

**IDLER GEAR**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097544	1	GEAR
2	2097546	1	BEARING, needle
3	2097540	1	SHAFT, idle gear (Incl. CYLINDER BLOCK ASY.)
4	2097621	1	WASHER, thrust
5	2097620	1	BOLT, M10 x 34
6	934041	1	LOCKWASHER, M10

## LUBRICATING SYSTEM

OIL PUMP &amp; FILTER



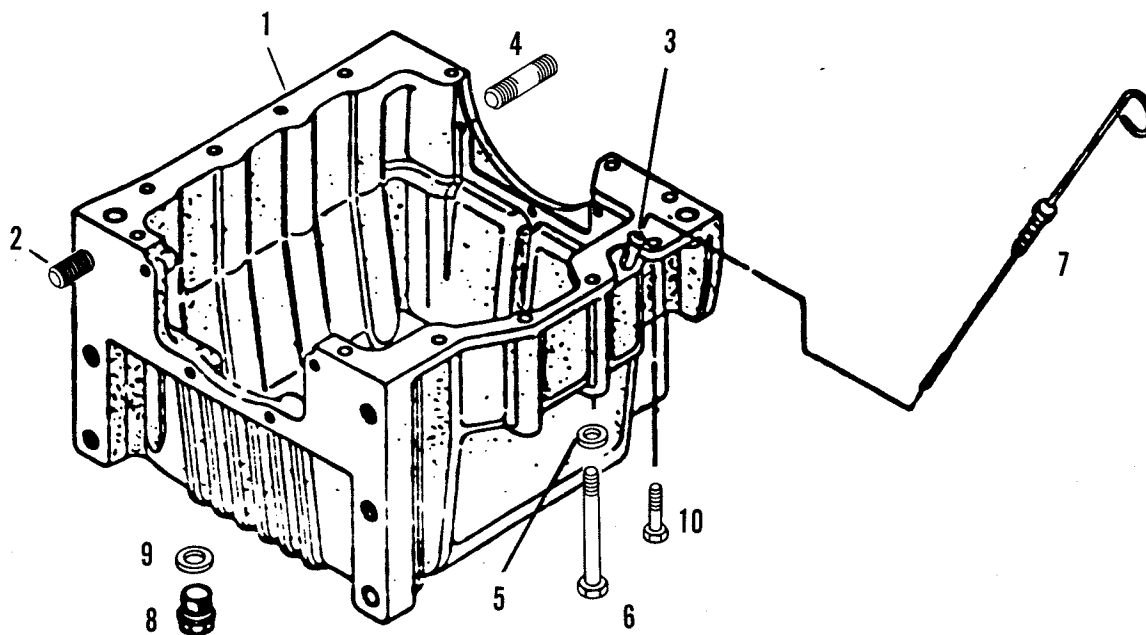


**5020 TRACTOR**  
ENGINE

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**LUBRICATING SYSTEM**  
OIL PUMP & FILTER

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097679	1	GASKET, oil pump
2	2097680	1	GASKET, oil suction tube
3	2097681	1	TUBE ASY., suction
4	2097682	1	PUMP ASY. (Incl. Items 5 thru 12 & 14)
5	-----	1	BODY (Refer to PUMP ASY.)
6	2097684	1	COVER
7	2097685	1	SHAFT ASY. (Incl. Items 8, 9, 14)
8	2098347	1	SHAFT
9	2098348	1	ROTOR SET, inner & outer
10	2097688	1	PIN, dowel, gear
11	2097687	1	GEAR
12	934099	2	CAPSCREW, M6 x 20 w/lockwasher
13	2097690	1	FILTER ASY., lube oil
14	2097689	1	PIN, dowel, rotor
15	2097692	1	GASKET
16	2097693	2	BOLT, M10 x 28 hollow
17	2097694	1	HOUSING ASY., oil control (Incl. Items 18 thru 22)
18	-----	1	HOUSING (Refer to HOUSING ASY.)
19	2097695	1	INSERT, relief valve
20	2097696	1	SPRING, relief valve
21	2097697	1	BOLT
22	2097698	1	O-RING
23	2097699	1	TUBE, lube oil
24	2097700	1	SWITCH, oil pressure
25	934049	2	CAPSCREW, M8 x 22 w/washer, lockwasher
26	934050	3	CAPSCREW, M8 x 40 w/washer, lockwasher
27	934045	2	CAPSCREW, M8 x 20 w/lockwasher
28	934100	3	CAPSCREW, M8 x 75 w/lockwasher
29	2097701	4	GASKET
30	934040	3	LOCKWASHER, M8

LUBRICATING SYSTEM  
OIL PAN

LUBRICATING SYSTEM  
OIL PAN

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098610	1	CRANKCASE ASY. (Incl. Items 2 thru 4)
2	934098	6	STUD, M14 x 51
3	2097559	1	ADAPTER, oil gauge
4	934022	2	STUD, M8 x 36 oil seal cover
5	934040	7	LOCKWASHER
6	2097522	8	CAPSCREW, m8 x 100
7	2097529	1	GAUGE, oil level
8	2097532	1	PLUG, magnet
9	2097533	1	GASKET
10	2098346	5	CAPSCREW, m8 x 30

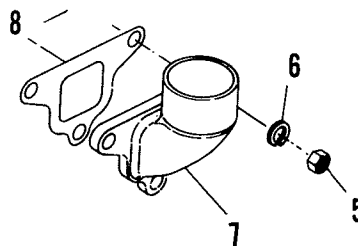
This technical diagram illustrates the exploded view of a vacuum pump assembly. The components are numbered as follows:

- 1**: Main cylindrical pump body with a label.
- 2**: Flange or mounting bracket on the side of the pump body.
- 3**: Small circular component, possibly a filter or seal.
- 4**: Gasket or O-ring for the side flange.
- 5**: Protective cap for the side flange.
- 6**: Mounting bracket for the top of the pump.
- 7**: Long vertical exhaust pipe.
- 8**: Mounting bracket for the top of the pump.
- 9**: 90-degree elbow for the exhaust pipe.
- 10**: Clamps for securing the exhaust pipe joints.
- 11**: Hose or flexible connection for the pump inlet.
- 12**: Hose or flexible connection for the pump inlet.
- 13**: Mounting bracket for the pump.
- 14**: Long vertical exhaust pipe.
- 15**: Short vertical section of the exhaust pipe.
- 16**: Clamping bracket for the exhaust pipe.
- 17**: Bolt for the clamping bracket.
- 18**: Bolt for the top mounting bracket.
- 19**: Bolt for the exhaust pipe joint.
- 20**: Clamping bracket for the exhaust pipe.
- 21**: Bolt for the exhaust pipe joint.
- 22**: Bolt for the mounting bracket.
- 23**: Bolt for the exhaust pipe joint.

This diagram illustrates the exploded view of a rear axle assembly. The components are labeled with numbers 1 through 6:

- 1**: The main axle housing, shown in two views (top and side).
- 2**: A triangular bracket or support plate.
- 3**: A curved bracket or support plate.
- 4**: A circular plate or flange.
- 5**: A bolt or screw.
- 6**: A nut or washer.

The diagram shows how these components are assembled together to form the rear axle structure.



**5020 TRACTOR**  
AIR INTAKE & EXHAUST SYSTEM

23

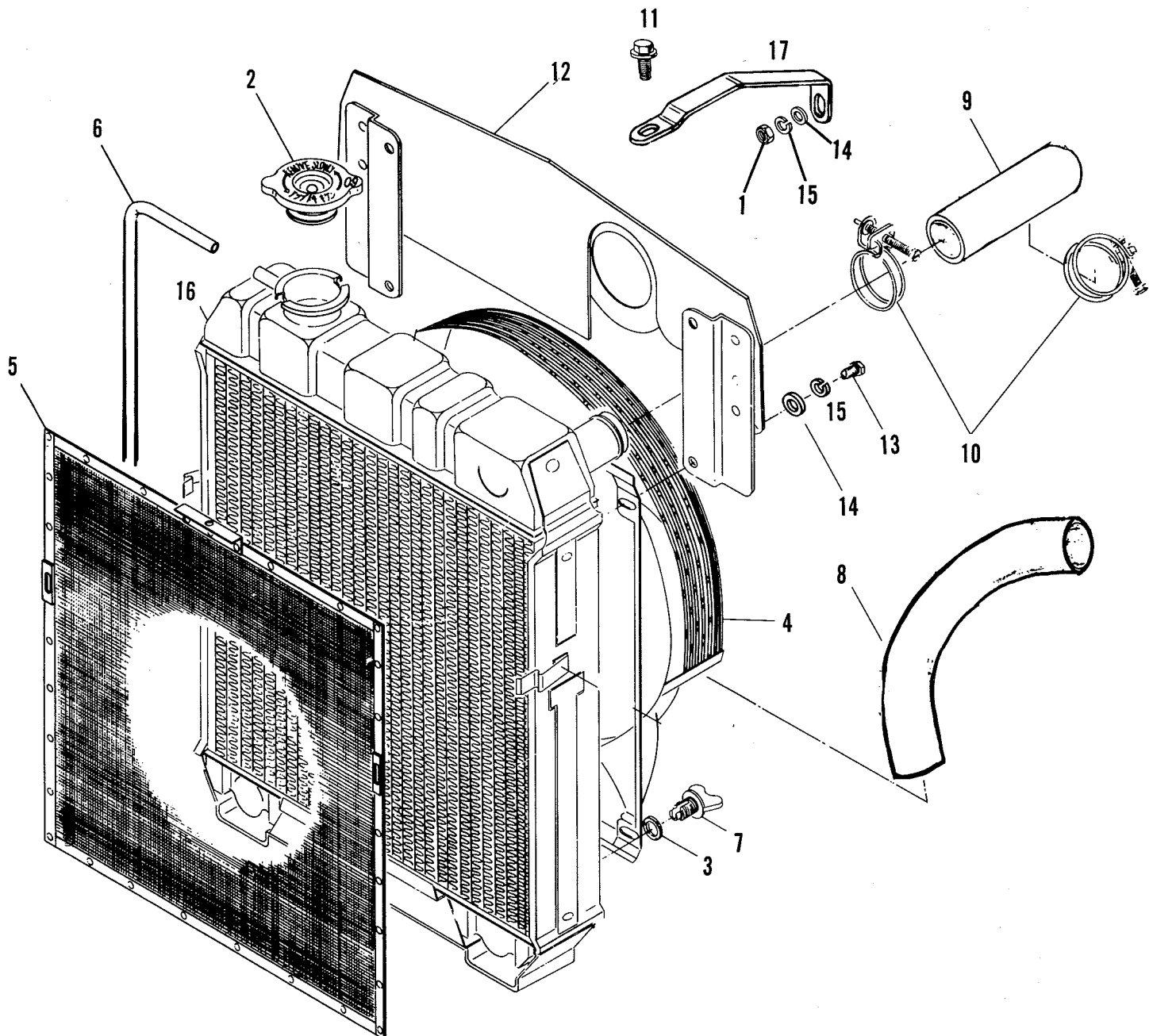
**AIR CLEANER & MUFFLER**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098611	1	CLEANER ASY., air (Incl. Items 2 thru 6)
2	2097035	1	ELEMENT
3	2097665	1	NUT ASY.
4	2097666	1	BAFFLE ASY.
5	2097667	1	CAP
6	2097668	1	CLAMP
7	934041	3	LOCKWASHER, M10 muffler
8	2097670	1	CLAMP
9	2097671	1	HOSE, to intake manifold
10	921913	2	CLAMP, inlet hose
11	921914	1	CLAMP
12	2097674	1	PIPE, to air cleaner
13	2097984	1	BRACKET, air cleaner
14	2097567	1	MUFFLER
15	2097562	1	PIPE, tail
16	2097678	1	CLAMP, tail pipe
17	2097585	1	CAPSCREW, M8 x 70 tail pipe
18	2098612	2	CAPSCREW, M8 x 25 w/lockwasher
19	2098613	1	NUT, tail pipe
20	918265	2	WASHER, tail pipe
21	934040	1	LOCKWASHER, M8 tail pipe
22	934048	3	CAPSCREW, M10 x 20 w/lockwasher
23	934029	3	NUT, M10 muffler

**MANIFOLDS**  
INTAKE & EXHAUST

ITEM	NUMBER	QTY.	DESCRIPTION
—	2098614	1	MANIFOLD ASY., exhaust (Incl. Items 1 & 2)
1	—	1	MANIFOLD, exhaust (Not Serviced; Order Manifold Asy. 2097675)
2	934081	3	STUD, M10 x 37
3	2097676	2	GASKET
4	2097677	1	GASKET
5	934029	7	NUT, M10
6	934041	7	LOCKWASHER, M10
7	2097672	1	MANIFOLD, intake
8	2097673	1	GASKET

## RADIATOR

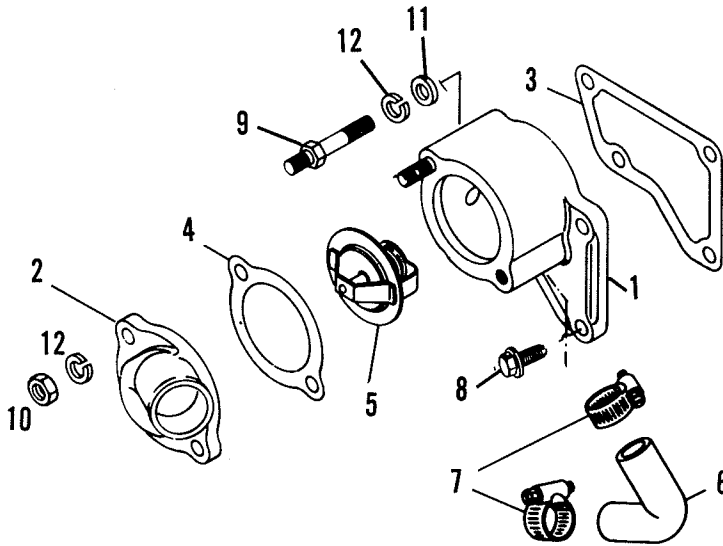
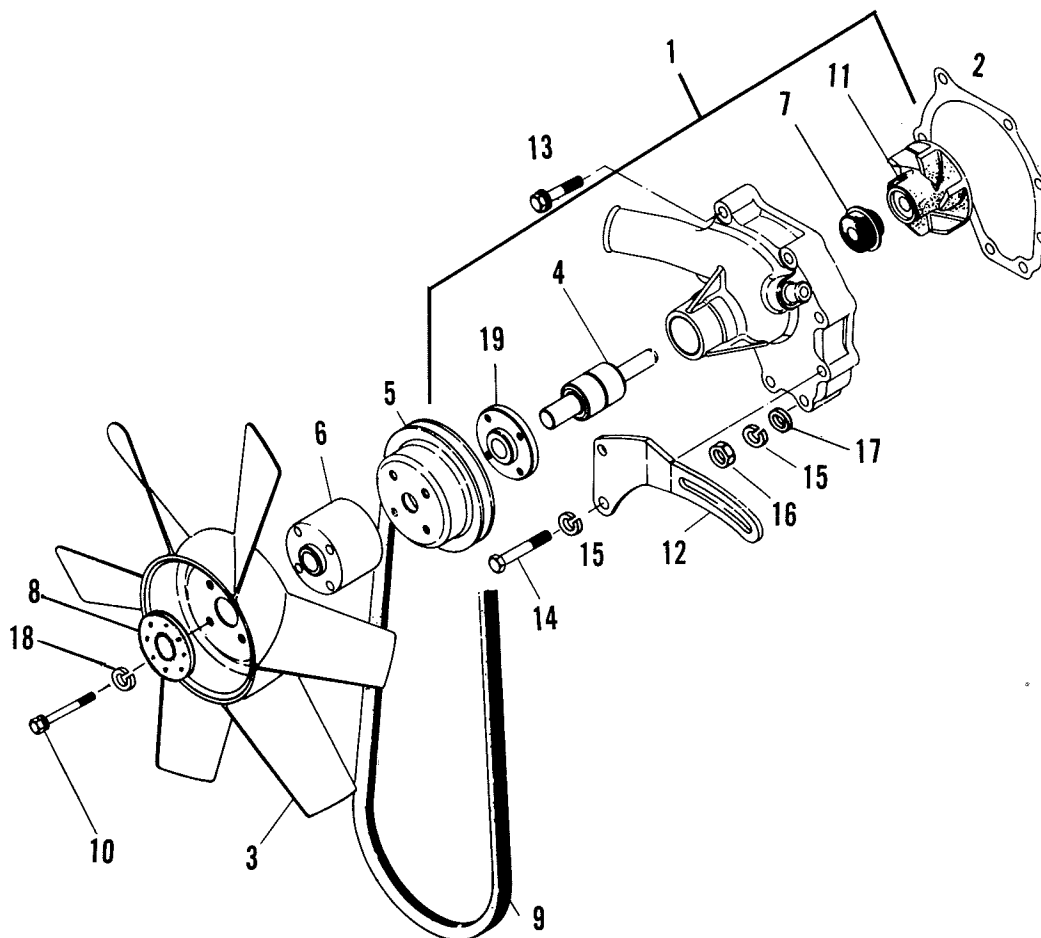


5020 TRACTOR  
COOLING SYSTEM

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RADIATOR

ITEM	NUMBER	QTY.	DESCRIPTION
1	934028	1	NUT, m10
2	2097708	1	CAP ASY.
3	2097709	1	GASKET
4	2097712	1	SHROUD
5	2097602	1	PROTECTOR
6	2098569	1	PIPE, vinyl
7	2097530	1	PLUG, water drain (Incl. Item 3)
8	2097702	1	HOSE, lower
9	2097704	1	HOSE, upper
10	921912	4	CLAMP
11	934054	1	CAPSCREW, M8 x 16 w/washer & lockwasher
12	2097703	1	DASHBOARD
13	934015	4	CAPSCREW, m8 x 16
14	918265	6	WASHER
15	934040	6	LOCKWASHER, M8
16	2097711	1	RADIATOR
17	2098362	1	SUPPORT, radiator

**5020 TRACTOR  
COOLING SYSTEM****THERMOSTAT & HOUSING****WATER PUMP**



**5020 TRACTOR**  
COOLING SYSTEM

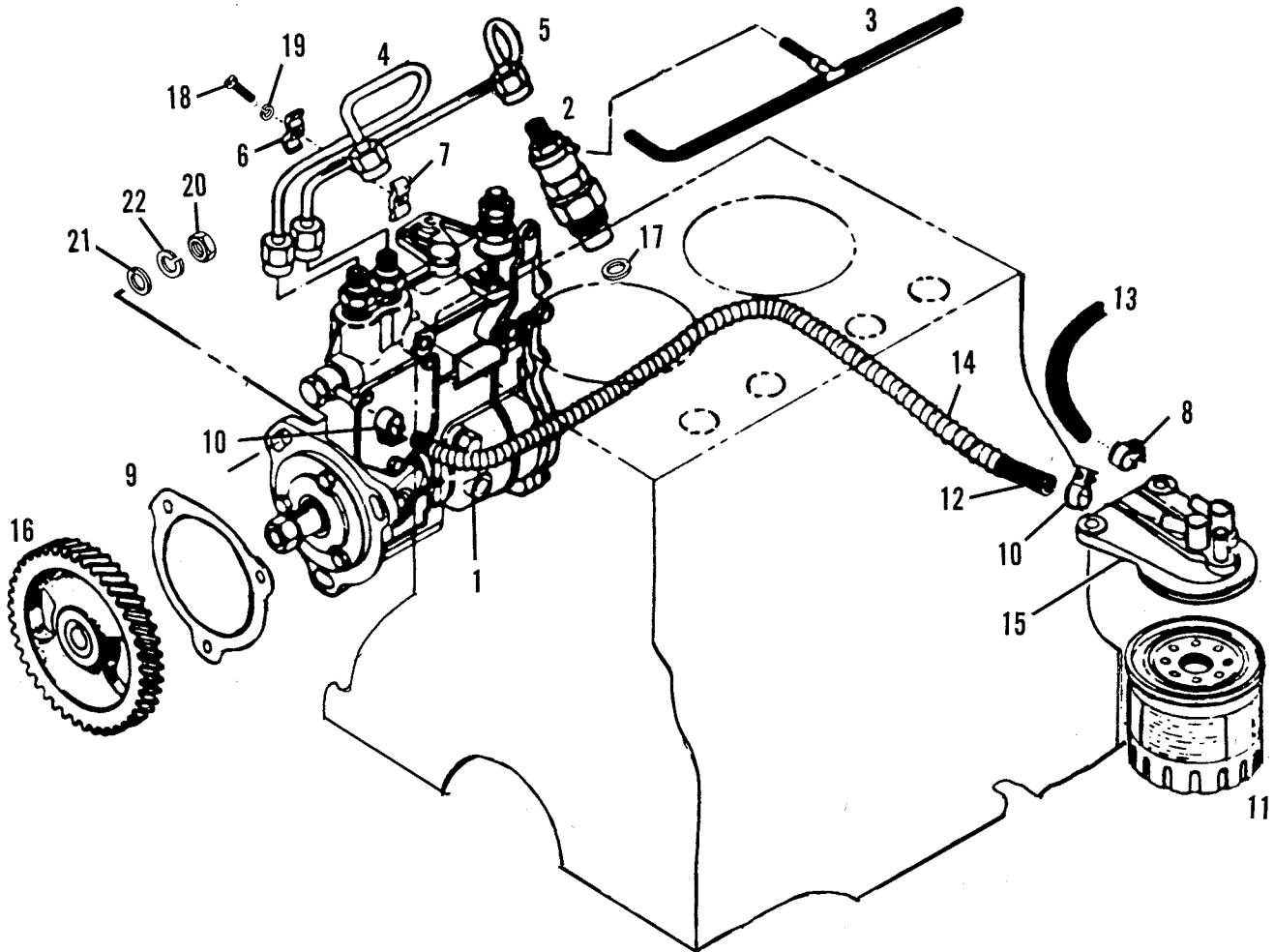
27

**THERMOSTAT & HOUSING**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098615	1	HOUSING, thermostat (Incl. STUD)
	934102	2	STUD, M8 x 36
2	2097514	1	FLANGE, water outlet
3	2098367	1	GASKET
4	2097516	1	GASKET
5	2097520	1	THERMOSTAT KIT
6	2097510	1	HOSE, by-pass
7	921911	2	CLAMP, by-pass hose
8	934049	3	CAPSCREW, M8 x 22 w/washer, lockwasher
9	934103	1	CAPSCREW, M8 x 58
10	934028	2	NUT, M8
11	918265	1	WASHER, M8
12	934040	3	LOCKWASHER, M8

**WATER PUMP**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098575	1	PUMP ASY. KIT (Incl. Items 2, 4, 7, 11 & 19)
2	2097655	1	GASKET
3	2097650	1	FAN
4	-----	1	SHAFT ASY. (Not serviced; order 2097657 PUMP ASY.)
5	2097651	1	PULLEY, water pump
6	2097652	1	SPACER
7	-----	1	SEAL ASY. (Not serviced; order 2097657 PUMP ASY.)
8	2097561	1	LOCKPLATE, fan bolts
9	2097654	1	BELT, fan
10	2097563	4	CAPSCREW, M6 x 63 fan
11	-----	1	IMPELLER (Not serviced; order 2097657 PUMP ASY.)
12	2097656	1	SUPPORT, generator
13	934050	2	CAPSCREW, M8 x 40 washer, lockwasher
14	934104	3	CAPSCREW, M8 x 50
15	934040	6	LOCKWASHER, M8
16	934028	3	NUT, M8
17	918265	4	WASHER
18	934039	4	LOCKWASHER, M6
19	2097661	1	HUB

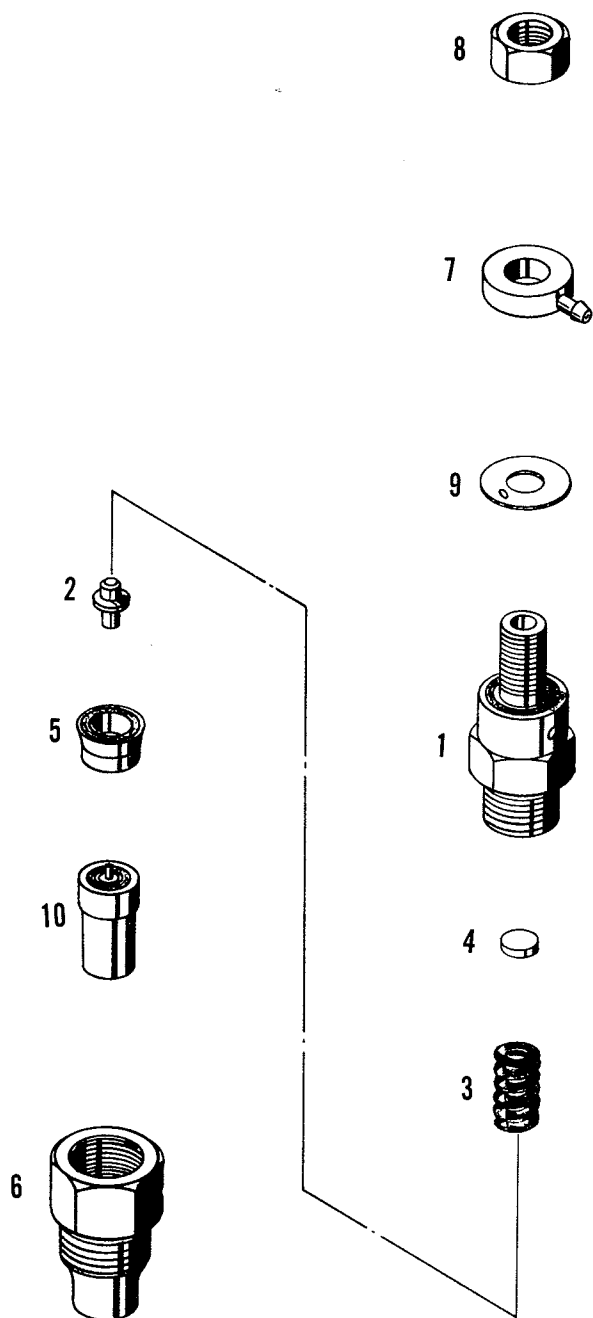
FUEL INJECTION SYSTEM  
PUMP, LINES & FILTER

**5020 TRACTOR**  
FUEL SYSTEM

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**FUEL INJECTION SYSTEM**  
PUMP, LINES & FILTER

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097637	1	INJECTION PUMP ASY. (For Component Parts Refer to PUMP HOUSING & DRIVE)
2	2097627	2	INJECTOR ASY.
3	2097628	1	PIPE ASY., drip return
4	2097638	1	TUBE ASY. (Front) injection
5	2097639	1	TUBE ASY. (rear) injection
6	2097810	1	SPACER, upper
7	2097640	1	SPACER, lower
8	921910	2	CLAMP
9	2097641	1	GASKET
10	2097642	2	CLAMP
11	2098616	1	FILTER ASY., fuel
12	2097644	1	PIPE, fuel (long)
13	2098617	1	PIPE, fuel (short)
14	2097646	1	COIL, protector
15	2097647	1	BRACKET, fuel filter
16	2097649	1	GEAR, injection pump
17	2097663	2	GASKET, fuel injector
18	934025	1	SCREW
19	934038	1	LOCKWASHER, M5, spacer
20	934028	3	NUT, M8 injection pump
21	918265	3	WASHER, injection pump
22	934040	3	LOCKWASHER, M8 injection pump
23	2097772	1	LEVER
	2097792	1	SPRING
	2097778	1	SPRING
	2097785	1	LEVER

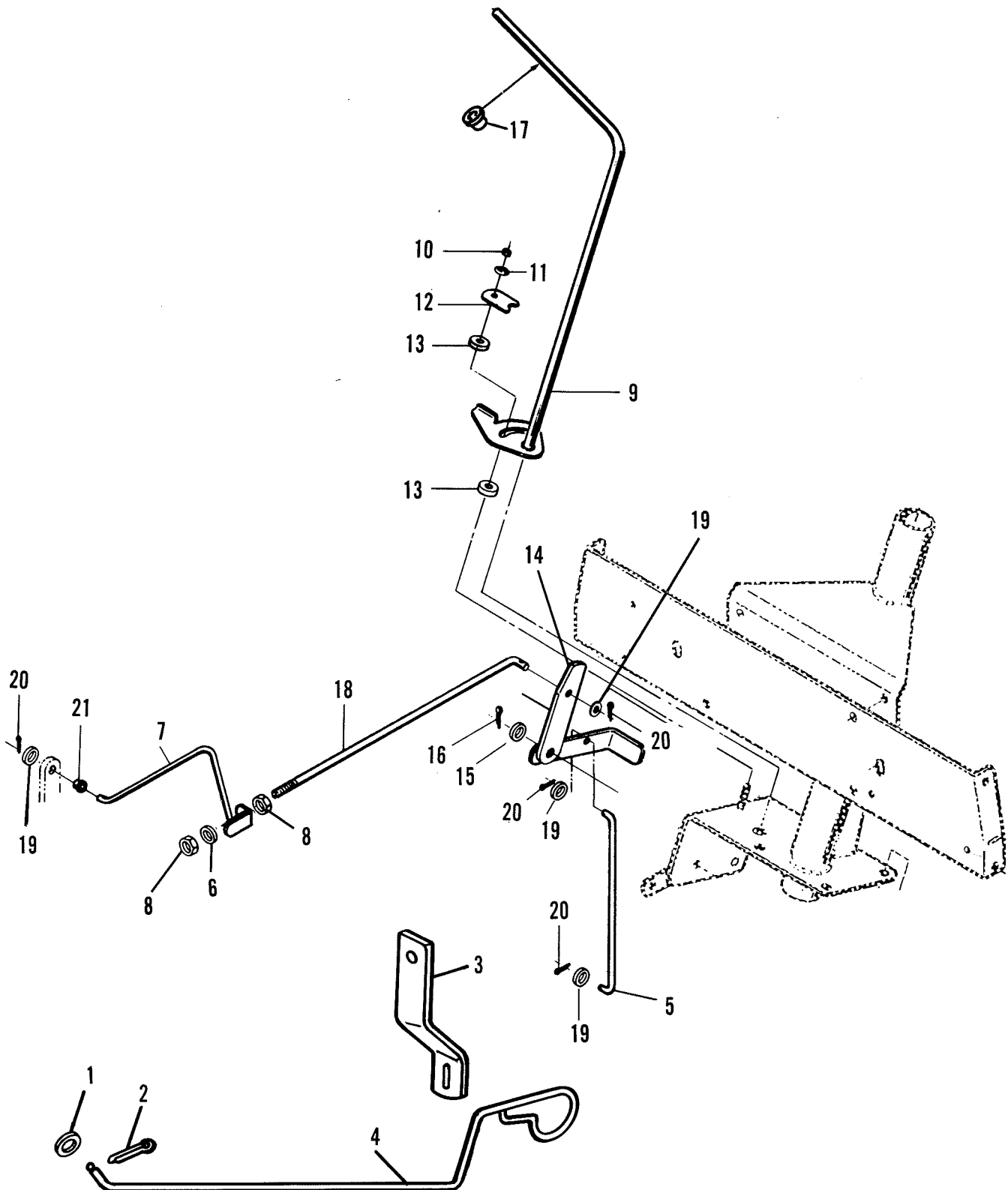
FUEL INJECTION SYSTEM  
FUEL INJECTOR

**5020 TRACTOR**  
FUEL SYSTEM

**31**

**FUEL INJECTION SYSTEM**  
FUEL INJECTOR

ITEM	NUMBER	QTY.	DESCRIPTION
—	2097627	1	INJECTION ASY., fuel
1	2097565	1	BODY, nozzle holder
2	2097718	1	ROD, push
3	2097719	1	SPRING, nozzle
4	2097720	1	SHIM
5	2097721	1	SPACER
6	2097722	1	NUT, retaining
7	2097723	1	EYE
8	2097724	1	NUT
9	2097725	1	GASKET
10	2097726	1	NOZZLE

**5020 TRACTOR**  
FUEL SYSTEM**FUEL INJECTION SYSTEM**  
THROTTLE & CONTROL

5020 TRACTOR  
FUEL SYSTEM

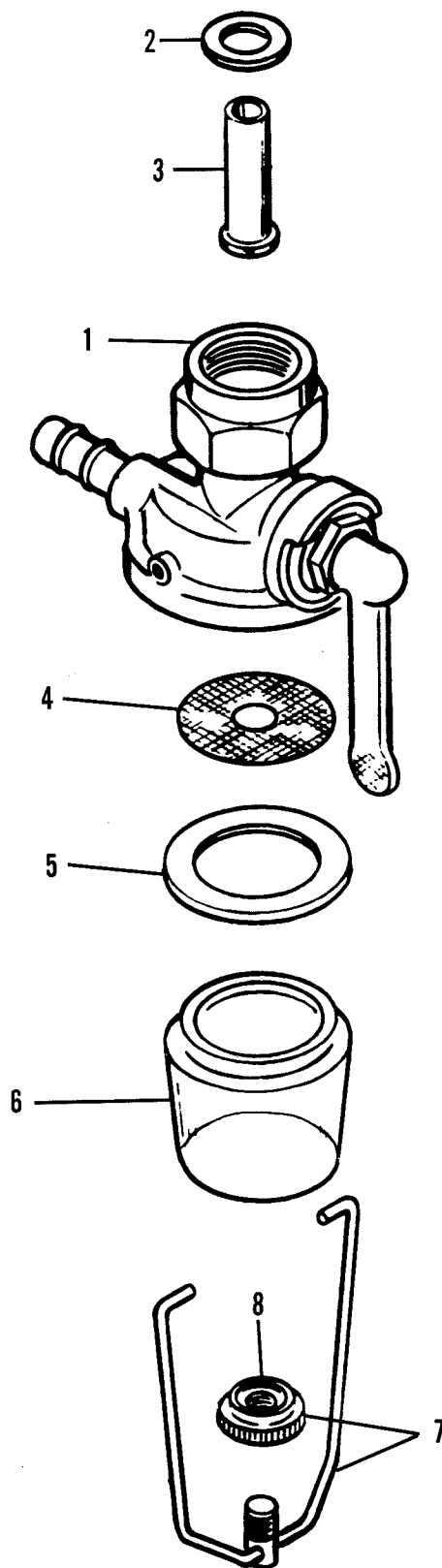
33

FUEL INJECTION SYSTEM  
THROTTLE & CONTROL

ITEM	NUMBER	QTY.	DESCRIPTION
1	934068	1	WASHER
2	923360	1	PIN, cotter
3	2098067	1	BRACKET, rod
4	2098066	1	ROD, stopper
5	2098065	1	ROD
6	934039	1	LOCKWASHER, M6
7	2098573	1	ROD (A)
8	934027	2	NUT, M6
9	2098268	1	LEVER, throttle
10	2098275	2	U-NUT
11	2098276	1	WASHER
12	2098274	1	PLATE
13	2098273	2	GASKET, friction
14	2098063	1	ARM, stopper
15	918266	1	WASHER
16	918448	1	PIN, cotter
17	2098271	1	BUSHING, lever
18	2098064	1	ROD (B)
19	934033	4	WASHER
20	923360	4	PIN, cotter
21	2098277	1	BUSHING

5020 TRACTOR  
FUEL SYSTEM

## FUEL FILTER





## 5020 TRACTOR

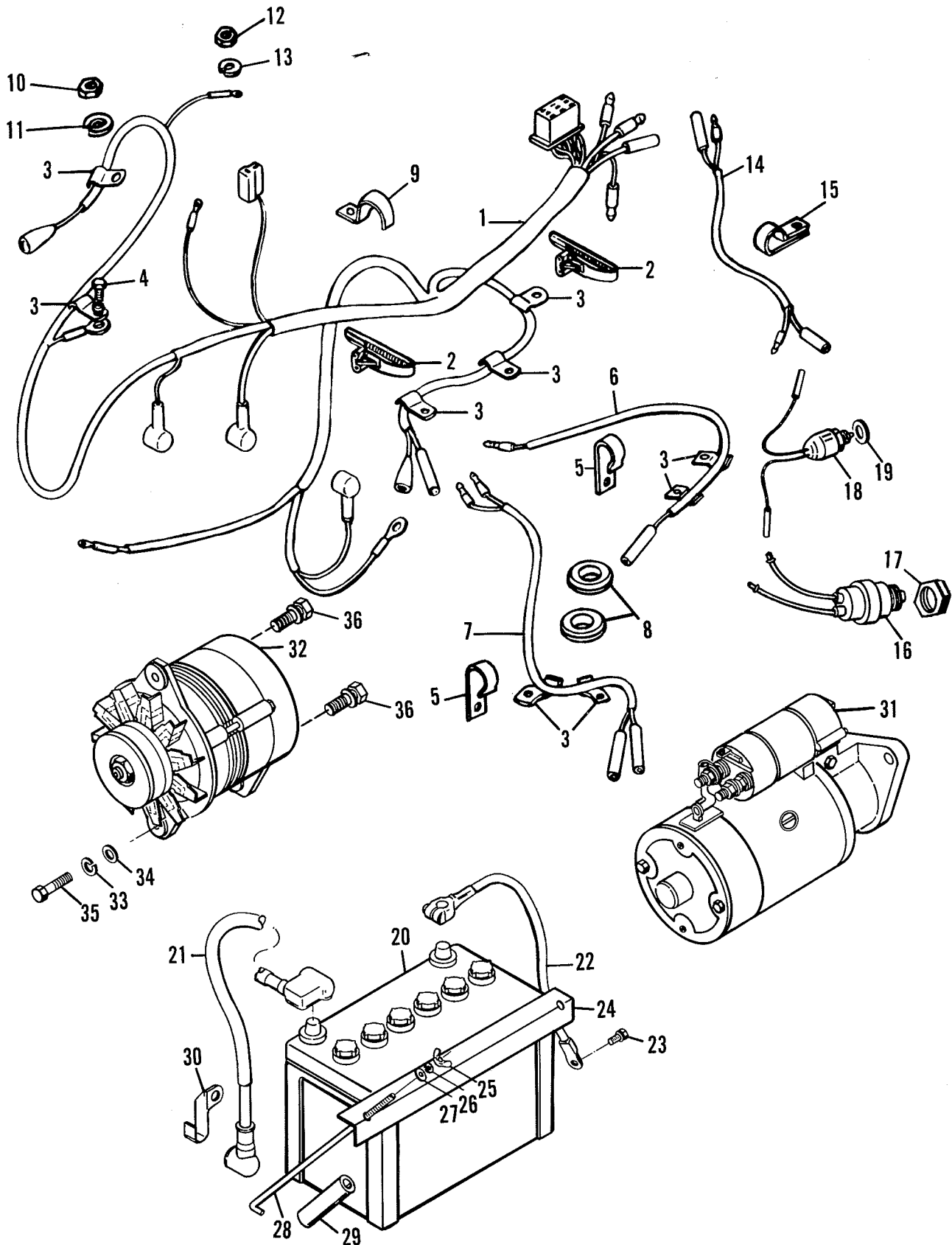
## FUEL SYSTEM

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## FUEL FILTER

ITEM	NUMBER	QTY.	DESCRIPTION
—	2098589	—	FILTER ASY.
1	—	1	BODY (Not Serviced; Order 2098213 FILTER ASY.)
2	—	1	GASKET (Not Serviced; Order 2098411 PIPE ASY.)
3	2098411	1	PIPE ASY. (Incl. Item 2)
4	2098412	1	STRAINER
5	2098413	1	GASKET
6	2098414	1	BOWL
7	2098415	1	BAIL ASY. (Incl. Item 8)
8	—	1	NUT, pushing (Not Serviced; Order 2098415 BAIL ASY.)

ENGINE ELECTRICAL SYSTEM  
WIRING & BATTERY



**5020 TRACTOR**  
ELECTRICAL & INSTRUMENTS

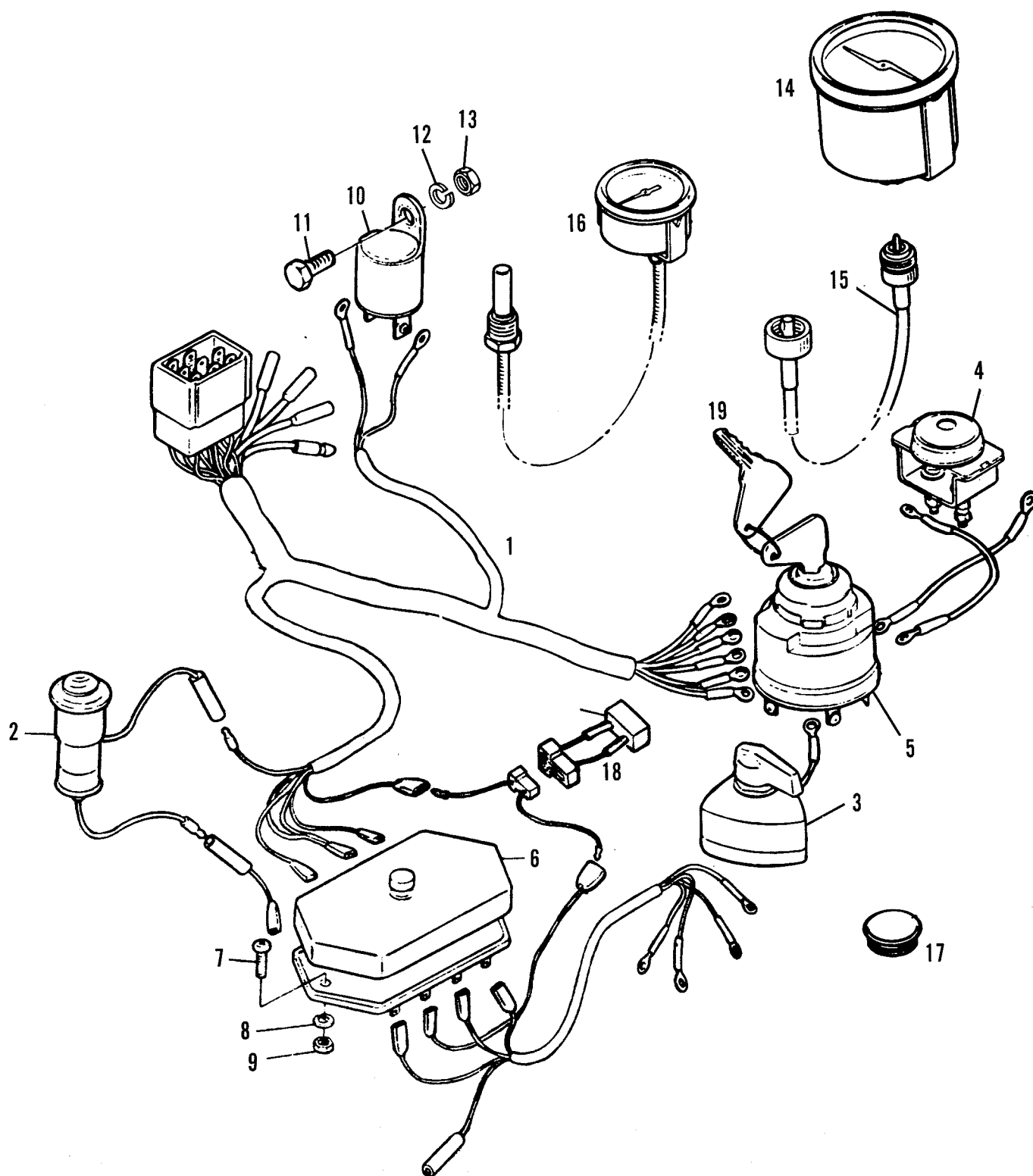
**37**

**ENGINE ELECTRICAL SYSTEM**  
WIRING & BATTERY

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098291	1	HARNESS, front
2	2097592	2	CLAMP, harness
3	2098083	8	CLAMP
4	934045	1	CAPSCREW
5	2098355	2	CLIP (B), harness
6	2098295	1	WIRE, R.H., flasher
7	2098296	1	WIRE, L.H., flasher
8	2098324	2	GROMMET
9	2098325	1	CLAMP
10	934028	1	NUT, m8
11	934040	1	LOCKWASHER, m8
12	934026	1	NUT, m5
13	934038	1	LOCKWASHER, m5
14	2098326	1	WIRE, safety
15	2098327	2	CLIP (A), harness
16	2098314	1	SWITCH ASY., safety start - PTO
17	2098339	1	NUT, m14
18	2098272	1	SWITCH ASY., safety, start - transmission
19	2098318	1	GASKET
20	243472	1	BATTERY
21	2098217	1	CABLE
22	2098221	1	CABLE
23	934045	1	CAPSCREW
24	2098219	1	PLATE, battery
25	2098220	2	NUT
26	934039	2	LOCKWASHER
27	2098103	2	WASHER
28	2098218	2	ROD, battery
29	2098335	2	BUFFER, battery
30	2098336	1	CLAMP, battery cable
31	2097715	1	STARTING MOTOR (Refer to STARTING MOTOR Group for Components)
32	2097714	1	GENERATOR (Refer to GENERATOR Group for Components)
33	934040	1	LOCKWASHER
34	919326	1	WASHER
35	934106	1	CAPSCREW, m8 x 35
36	934049	2	CAPSCREW, m8 x 22 w/washer & lockwasher

5020 TRACTOR  
ELECTRICAL & INSTRUMENTS

INSTRUMENTS  
GAUGES, WIRING

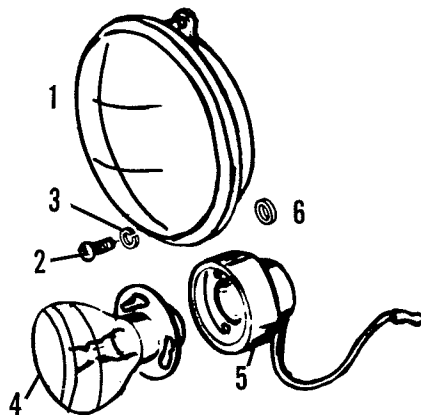
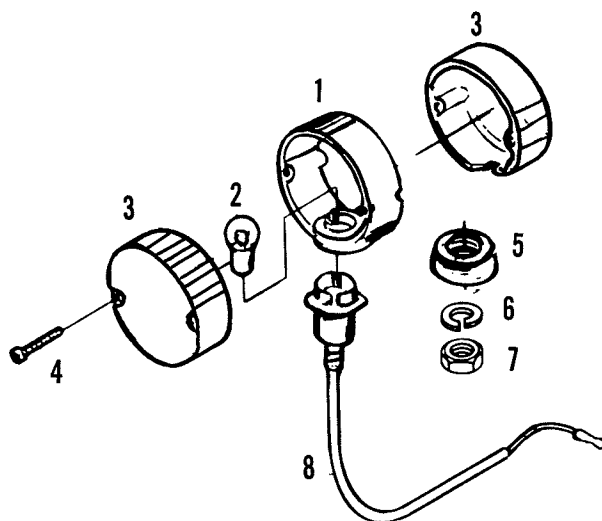
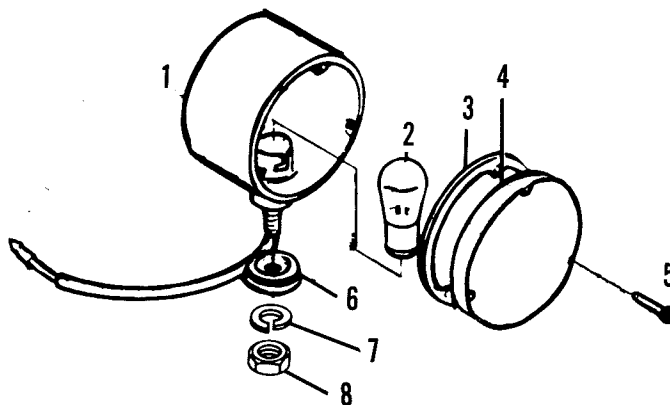


**5020 TRACTOR**  
**ELECTRICAL & INSTRUMENTS**

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**INSTRUMENTS**  
**GAUGES, WIRING**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098236	1	HARNESS
2	2098279	1	CONDENSER
3	2098280	1	SWITCH, lighting
4	2098284	1	LAMP
5	2098283	1	SWITCH, main
6	2098278	1	BOX, fuse
7	934110	2	SCREW, m5 x 14
8	934038	2	LOCKWASHER, m5
9	934026	2	NUT, m5
10	2098282	1	FLASHER UNIT
11	934116	1	CAPSCREW, m6 x 16
12	934039	1	LOCKWASHER, m16
13	934027	1	NUT, m6
14	2098216	1	METER, tach and hour
15	2098222	1	CABLE
16	2098223	1	GAUGE, water temp.
17	2098323	1	GROMMET
18	2098595	1	RESISTOR
19	2098383	2	KEY

**5020 TRACTOR**  
ELECTRICAL & INSTRUMENTS**ELECTRICAL LIGHTING**  
HEAD LAMP**ELECTRICAL LIGHTING**  
WARNING LAMP**ELECTRICAL LIGHTING**  
TAIL LAMP

ELECTRICAL LIGHTING  
HEAD LAMP

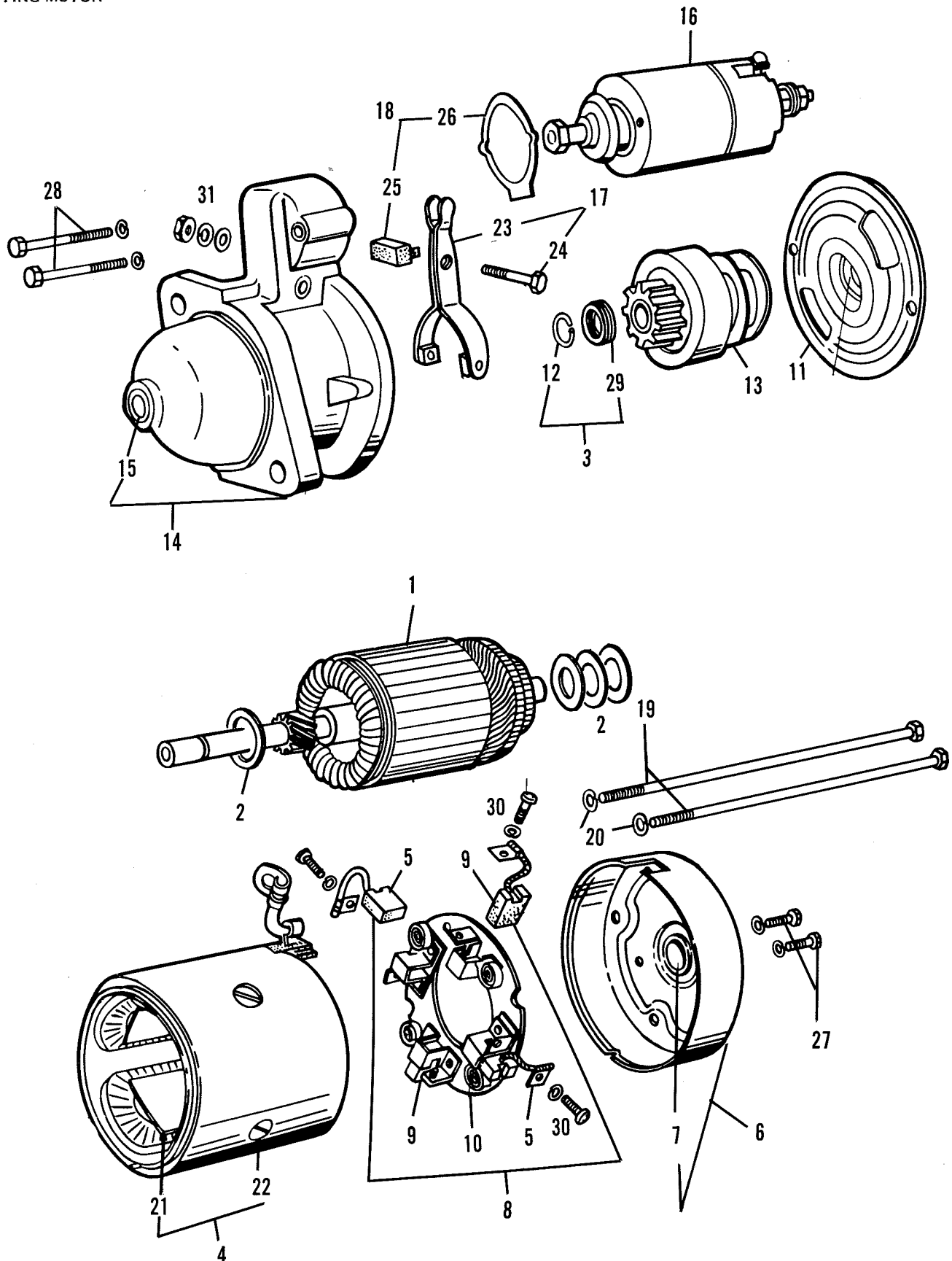
ITEM	NUMBER	QTY.	DESCRIPTION
—	2098328	2	LAMP ASY., head (Incl. Items 1, 4 & 5)
1	2098256	2	BODY, lamp, head
2	934119	2	SCREW,
3	934038	2	LOCKWASHER, M5
4	2098361	2	BULB, headlamp
5	2098287	2	SOCKET, head lamp
6	2098596	2	WASHER, nylon

ELECTRICAL LIGHTING  
WARNING LAMP

ITEM	NUMBER	QTY.	DESCRIPTION
—	2098329	2	LAMP ASY., flashing warning (Incl. Item 1 thru 8)
1	2098288	2	BODY, lamp
2	2097547	2	BULB
3	2097595	4	LENS
4	2098330	8	SCREW
5	2097597	2	GASKET
6	934042	2	LOCKWASHER, M12
7	2098331	2	NUT
8	2098332	2	SOCKET

ELECTRICAL LIGHTING  
TAIL LAMP

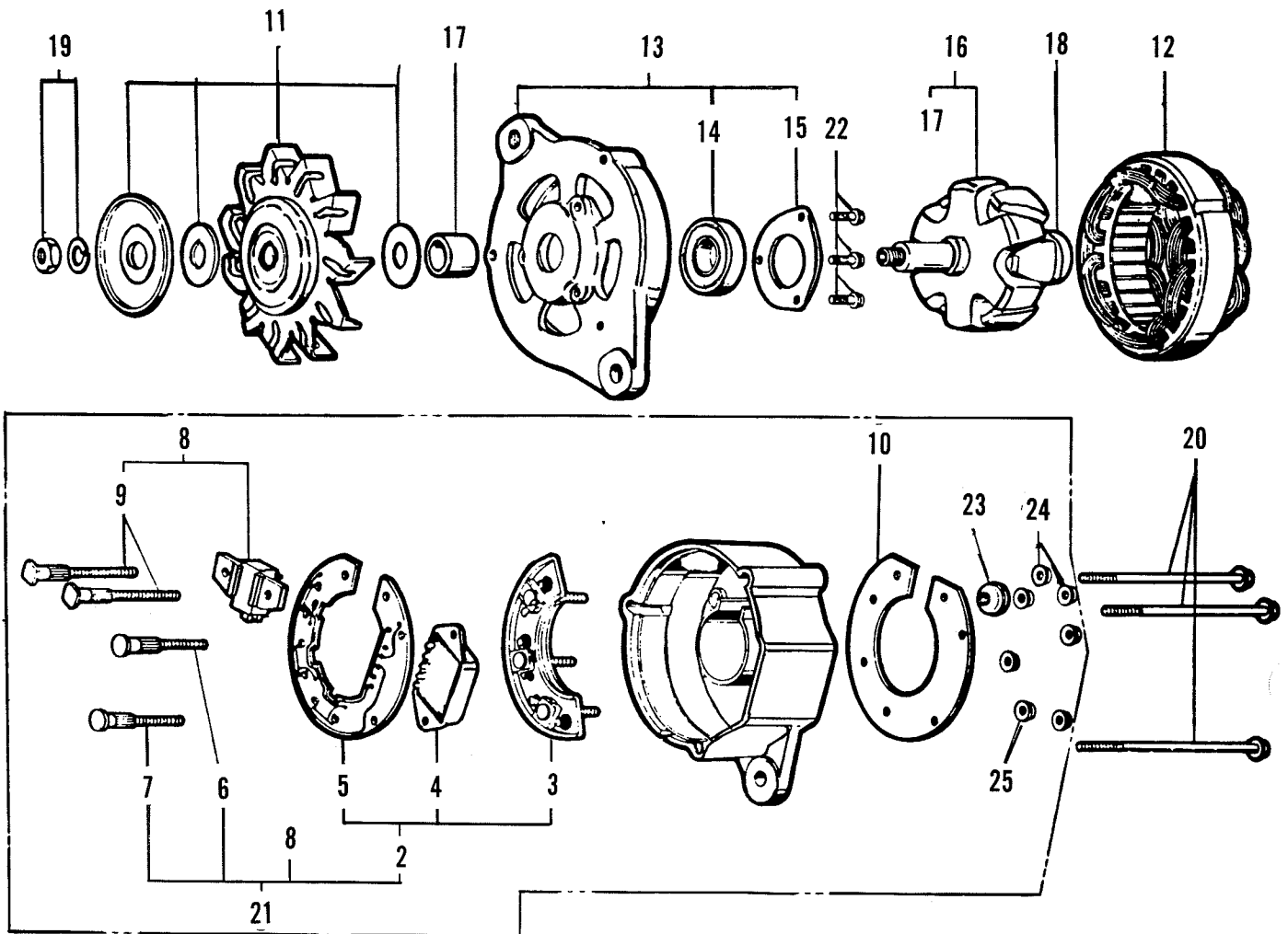
ITEM	NUMBER	QTY.	DESCRIPTION
—	2098333	1	TAIL LAMP ASY. (Incl. Item 1 thru 8)
1	2098290	1	BODY, lamp
2	2097583	1	BULB
3	2097623	1	GASKET
4	2097624	1	LENS
5	2098334	3	SCREW
6	2098289	1	GASKET
7	934042	1	LOCKWASHER
8	2098331	1	NUT

**5020 TRACTOR**  
ELECTRICAL & INSTRUMENTS**ENGINE ELECTRICAL SYSTEM**  
STARTING MOTOR



ENGINE ELECTRICAL SYSTEM  
STARTING MOTOR

ITEM	NUMBER	QTY.	DESCRIPTION
—	2097715	1	MOTOR, starting
1	2097832	1	ARMATURE ASY.
2	2098390	1	WASHER, kit thrust
3	-----	1	PINION STOPPER SET (Not Serviced; Order Items 12 & 29)
4	2097853	1	YOKE ASY. (Incl. Items 21 & 22)
5	2097846	2	BRUSH (+)
6	2097829	1	COVER ASY., rear (Incl. Item 7)
7	2097844	2	BEARING, rear cover
8	2097845	1	HOLDER ASY., brush (Incl. Items 5, 9 & 10)
9	2097847	2	BRUSH (—)
10	2097848	4	SPRING, brush
11	2097849	1	BEARING ASY., center (Incl. Item 12)
12	2097834	1	STOPPER PINION
13	2097851	1	PINION ASY.
14	2097852	1	CASE ASY., gear (Incl. Item 15)
15	2097844	1	BEARING, gear case
16	2097862	1	SWITCH ASY., magnetic
17	2097857	1	LEVER SET, shift (Incl. Items 23 & 24)
18	-----	1	COVER SET, dust (Not Serviced; Order Item 25 & 26)
19	2097861	2	BOLT, through
20	2098352	2	WASHER
21	2097843	1	COIL ASY., field
22	2097842	4	SCREW, pole core set
23	-----	1	LEVER, shift (Not Serviced; Order 2097857 LEVER SET)
24	2097858	1	PIN, shift lever
25	2097855	1	COVER, dust
26	2097856	1	COVER, dust
27	2097863	2	SCREW, m5 x 0.7 x 12
28	2097860	2	BOLT, m6 x 1.0 x 46)
29	2097836	1	CLIP, pinion stopper
30	2098618	4	SCREW
31	2098619	1	NUT

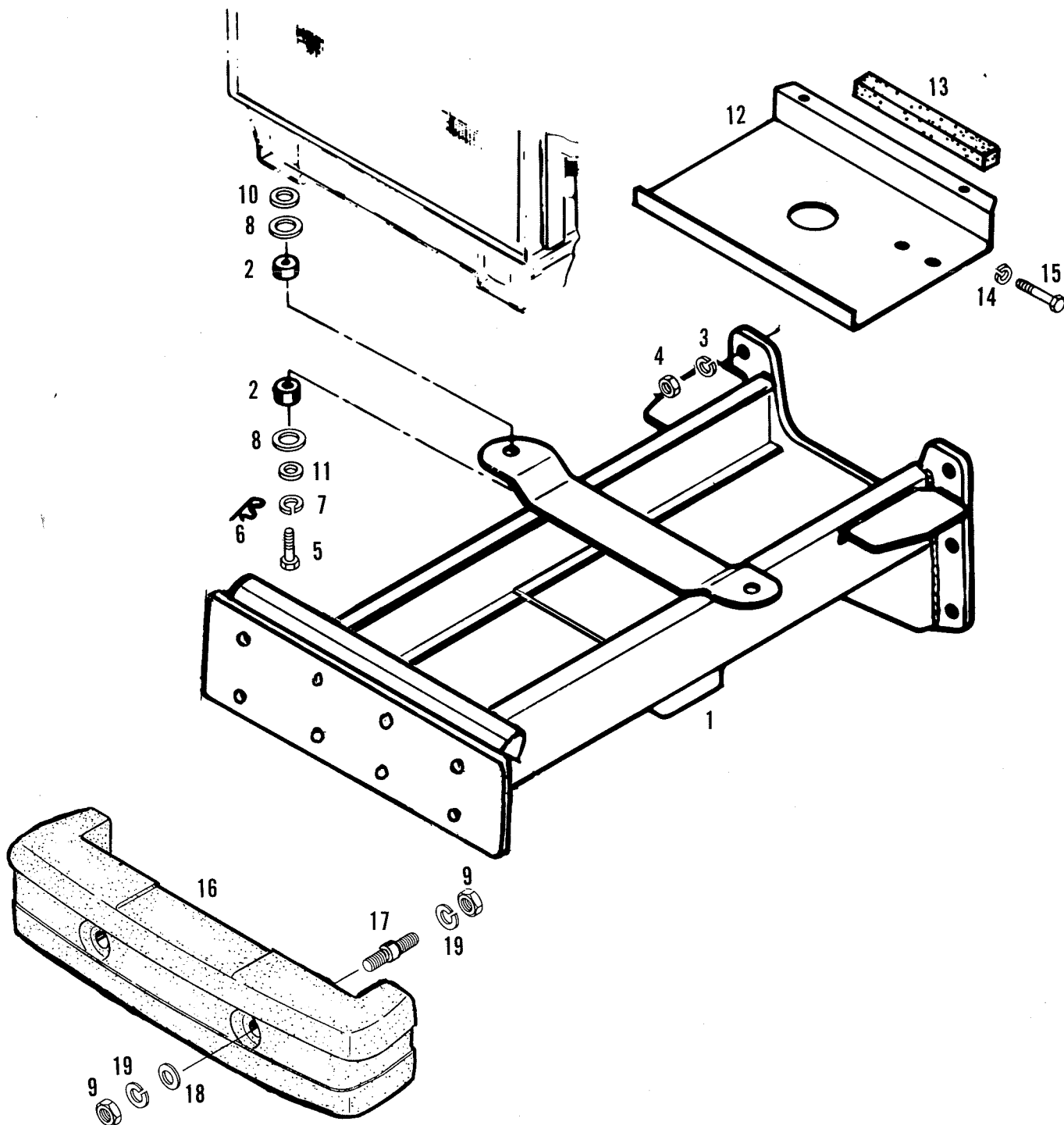
ENGINE ELECTRICAL SYSTEM  
GENERATOR

ENGINE ELECTRICAL SYSTEM  
GENERATOR

ITEM	NUMBER	QTY.	DESCRIPTION
—	2097714	1	GENERATOR
1	2097716	1	COVER ASY., rear (Incl. Items 10, 21 & 23 thru 25)
2	2098379	1	REGULATOR ASY., diode (Incl. Item 3 thru 5)
3	-----	1	DIODE ASY. (Not serviced; order 2098379 REGULATOR ASY.)
4	-----	1	REGULATOR ASY., I.C. (Not serviced; order 2098379 REGULATOR ASY.)
5	-----	1	PLATE, diode (Not serviced; order 2098379 REGULATOR ASY.)
6	2097824	1	BOLT, m5
7	2097830	1	BOLT, m5
8	2097811	1	BRUSH ASY. (Incl. Item 9)
9	2097815	2	BOLT, m4 x 38
10	2097817	1	COVER
11	2097822	1	PULLEY ASY.
12	2097717	1	STATOR ASY.
13	2097818	1	COVER ASY. front (Incl. Items 14 & 15)
14	2097827	1	BEARING, ball
15	2097820	1	RETAINER, bearing
16	2097564	1	ROTOR ASY. (Incl. Item 17)
17	2097566	1	SPACER
18	2097826	1	BEARING, ball
19	2097825	1	NUT ASY., pulley
20	2097823	3	BOLT, through
21	-----	1	BRUSH ASY., diode (Incl. Items 2 thru 9) (Not serviced; order 2098379 REGULATOR ASY.)
22	2097821	3	CAPSCREW ASY., m4 x 12
23	2098578	1	BUSHING
24	2098350	2	NUT ASY., m4
25	2098351	5	NUT ASY., m5

5020 TRACTOR  
SHEET METAL, FRAME & SEAT

SHEET METAL & FRAME  
FRONT FRAME & WEIGHT



**5020 TRACTOR**  
SHEET METAL, FRAME & SEAT

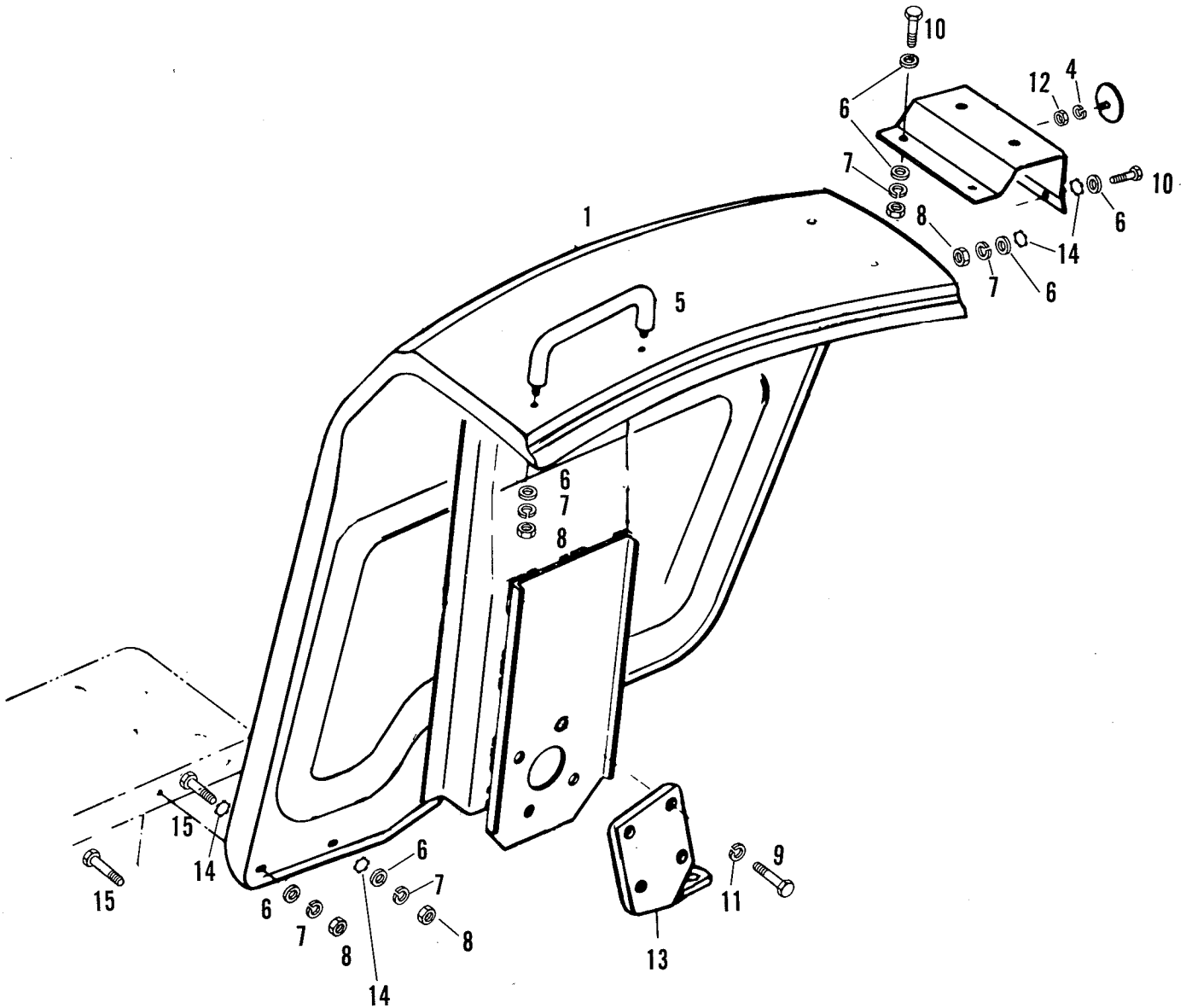
**47**

**SHEET METAL & FRAME**  
FRONT FRAME & WEIGHT

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098071	1	FRAME
2	2098073	4	BUMPER
3	934063	6	LOCKWASHER, m14
4	934064	6	NUT, m14
5	934065	2	CAPSCREW
6	2098354	2	CLIP
7	934041	2	LOCKWASHER, m10
8	2098072	4	WASHER
9	934064	4	NUT, m14
10	2098587	2	WASHER
11	918266	2	WASHER
12	2098585	1	SUPPORT
13	2098586	1	SEAL
14	934042	4	LOCKWASHER, m12
15	934060	4	CAPSCREW
16	-----	1	FRONT WEIGHT (Order from MACHINERY)
17	2098599	2	STUD
18	934120	2	WASHER, m14
19	934063	4	LOCKWASHER, m14

**5020 TRACTOR**  
SHEET METAL, FRAME & SEAT

**SHEET METAL & FRAME**  
FENDER



**5020 TRACTOR**  
SHEET METAL, FRAME & SEAT

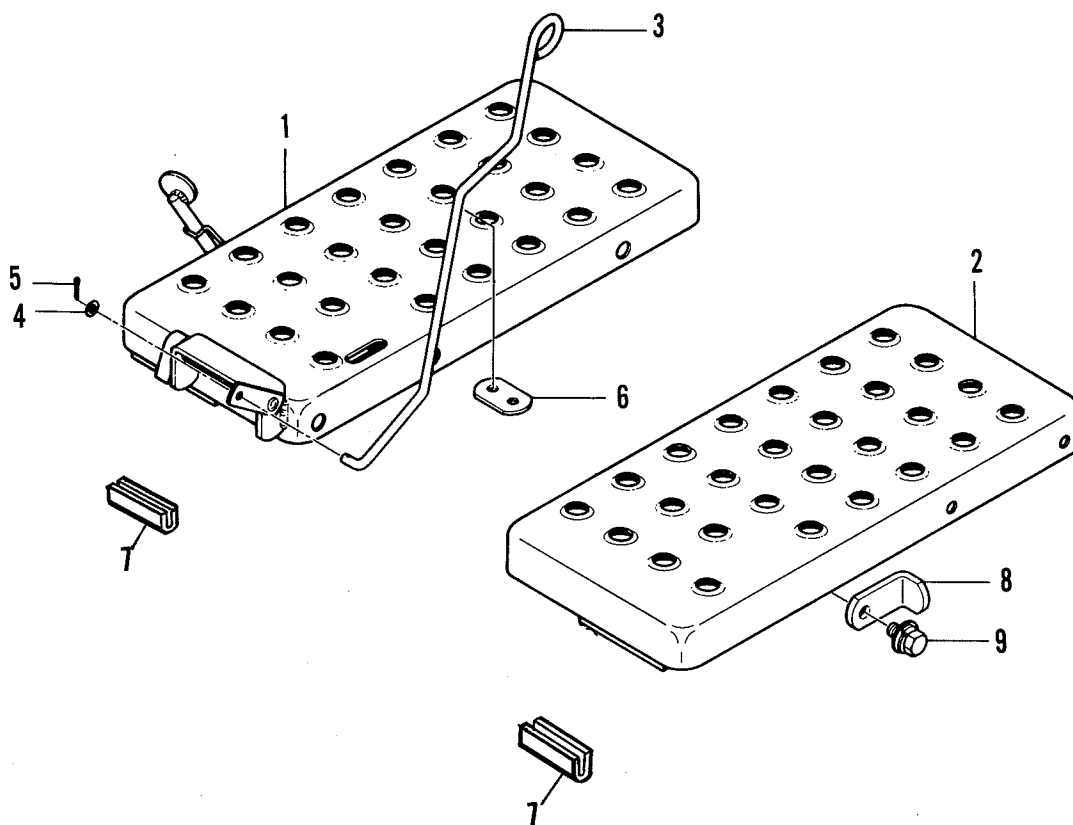
**49**

**SHEET METAL & FRAME**  
FENDER

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098137	1	FENDER, L.H.
	2098130	1	FENDER, R.H.
2	2098133	2	BRACKET, warning lamp
3	2098307	2	REFLECTOR
4	934038	2	LOCKWASHER
5	2098132	2	HANDLE
6	918265	24	WASHER
7	934040	16	LOCKWASHER
8	934028	16	NUT
9	2098306	8	CAPSCREW
10	934015	12	CAPSCREW
11	934042	8	LOCKWASHER
12	934026	2	NUT
13	2098321	1	BRACKET, L.H., chain
	2098322	1	BRACKET, R.H., chain
14	2098594	12	WASHER
15	934097	12	CAPSCREW

**5020 TRACTOR**  
SHEET METAL, FRAME & SEAT

**SHEET METAL & FRAME**  
PLATFORM





**5020 TRACTOR**  
SHEET METAL, FRAME & SEAT

**51**

**SHEET METAL & FRAME**  
PLATFORM

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098109	1	PLATFORM, R.H.
2	2098110	1	PLATFORM, L.H.
3	2098112	1	ROD, control
4	934033	1	WASHER, m6
5	923360	1	PIN, cotter
6	2098113	1	PLATE
7	2098231	2	CUSHION
8	2098111	1	STOPPER
9	934070	6	CAPSCREW, m10 x 20

This exploded view diagram illustrates the assembly of a portable electronic device, likely a radio or amplifier. The main components and their assembly sequence are as follows:

- Part 1:** The main chassis or housing, featuring a carrying handle (19) and a top access panel (10).
- Part 2:** A speaker grille that fits into the front of the chassis.
- Part 3:** A control lever or switch mechanism mounted on the side.
- Part 4:** A small knob or pin used to secure the control lever.
- Part 5:** A screw used to secure the side panel.
- Part 6:** A small pin or spacer used in the side panel assembly.
- Part 7:** A screw used to secure the side panel.
- Part 8:** A small screw used for the front panel assembly.
- Part 9:** The front panel, which includes a speaker grille (2) and a control area with a triangular logo.
- Part 11:** A filter or mesh component located behind the front panel.
- Part 12:** A small screw used for the bottom panel.
- Part 13:** The bottom panel of the device.
- Part 14:** A side panel or cover plate.
- Part 15:** A vertical support or bracket.
- Part 16:** A control knob or dial with a textured face.
- Part 17:** A screw used to secure the control knob.
- Part 18:** A long screw used to secure the bottom panel.
- Part 20:** A small screw used for the bottom panel.
- Part 21:** A small screw used for the control knob.
- Part 22:** A small screw used for the control knob.
- Part 23:** A small screw used for the control knob.

**5020 TRACTOR**  
SHEET METAL, FRAME & SEAT

**53**

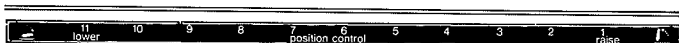
**SHEET METAL & FRAME**  
HOOD & GRILLE

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098308	1	HOOD
2	2098591	1	GRILLE
3	2098310	2	LATCH
4	2098311	2	BOLT, catcher
5	934033	2	WASHER, m6
6	934039	2	LOCKWASHER, m6
7	934027	2	NUT, m6
8	2098571	7	SCREW
9	2098068	1	PANEL, headlight
10	2098069	1	CUSHION
11	2098070	1	SCREW
12	912007	2	WASHER
13	918448	2	PIN, cotter
14	2098318	1	COVER, safety R.H.
15	2098319	1	COVER
16	2098320	1	COVER, safety L.H.
17	934054	4	CAPSCREW, m8 x 16
18	934095	2	CAPSCREW
19	2098593	1	SEAL
20	934042	2	LOCKWASHER, m12
21	2098592	1	BRACKET
22	934041	1	LOCKWASHER, m10
23	923029	1	NUT, m10

# 5020 TRACTOR

## SHEET METAL, FRAME & SEAT

### DECAL SET



No. 2097033 - Located on Right Wheel Guard

**WARNING**

540 rpm pto  
position drawbar hitch hole 14  
inches from end of pto shaft.  
to prevent possible personal  
injury, this guard and all power  
drive system safety shields  
must be kept in place.

No. 269836 - Located on P.T.O. Shield

**WARNING**

1. keep all guards in place when the machine is in operation.
2. permit no riders on farm field equipment other than persons required for instruction or assistance in machine operation.
3. stop engine, disconnect the power source, and wait for all machine movement to stop before servicing, adjusting, cleaning, or unclogging the equipment. Except where the machine must be running to be properly serviced or maintained, in which case the employer shall instruct employees as to all stated procedures which are necessary to safety service or maintain the equipment.
4. make sure everyone is clear of machinery before starting the engine, engaging power, or operating the machine.
5. lock out electrical power before performing maintenance or service on farmstead equipment.

No. 269839 - Located on R.H. Fender

**WARNING**

1. securely fasten your seat belt if tractor has a ROPS.
2. where possible, avoid operating the tractor near ditches, embankments, and holes.
3. reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
4. stay off slopes too steep for safe operation.
5. watch where you are going, especially at row ends, on roads, and around trees.
6. do not permit others to ride.
7. operate the tractor smoothly—no jerky turns, starts, or stops.
8. hitch only to the draw bar and hitch points recommended by tractor manufacturers.
9. when tractor is stopped, set brakes securely or use park lock if available.

No. 269521 - Located on L.H. Wheel Guard

**DANGER**

some implements including three  
point hitch mounted backhoes,  
when mounted on this tractor  
may seriously interfere with  
the Rollover Protection Structure.  
carefully check operation  
of any implement, especially  
maximum height to which imple-  
ment can be lifted, to insure  
that there is proper clearance  
to avoid damage or personal  
injury to operator by contact  
with the ROPS.

No. 269803 - Located on Top of P.T.O. Shield  
when equipped with Protective Frame.

**WARNING**

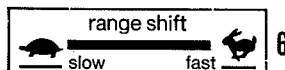
1. for your own safety, and that of others, read and understand the "operator's manual" before attempting to operate this tractor. (If manual is not available, contact your local Allis-Chalmers dealer.)
2. all shields including power drive system safety shields must be kept in place.
3. stop engine before leaving operator's position to adjust, lubricate, clean, or unclog machinery, unless otherwise specifically recommended in the "operator's manual."
4. wait for all movement to stop before servicing the machine.
5. keep hands, feet and clothing away from power driven parts.
6. keep off equipment unless seat or platform for operation and observation is provided by original manufacturer.
7. keep all others off.
8. use flashing warning lights when operating on highways except when prohibited by law.
9. make certain everyone is clear of machine before starting engine or operation.

No. 269838 - Located on L.H. Wheel Guard

**DANGER**

to prevent personal injury  
pull only from drawbar  
except when pulling implements  
designed for and properly fastened  
by three point hitch.

No. 256569 - Located P.T.O. Shield



Located on Instrument Panel

**ALLIS-CHALMERS**

MILWAUKEE WISCONSIN

No. 2097032 - Located on Air Cleaner

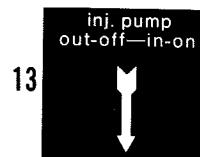
**WARNING**

before dismantling  
shift transmission  
into neutral  
lock brakes  
disengage pto

No. 269387 - Located on R.H. Wheel Guard



No. 2097048 - Located on Instrument Panel



Located on Shift Cover

MPH @ 2500 R.P.M. WITH 9.5-24 TIRES										P.T.O. R.P.M.	
RANGE					HIGH					540	
GEAR	1	2	3	4	R	1	2	3	4	R	2326
SPEED	8	12	16	21	16	33	46	61	81	64	ENG. R.P.M.

No. 2097024 - Located on Instrument Panel

MPH @ 2500 R.P.M. WITH 13.6-16 TIRES										P.T.O. R.P.M.	
RANGE					HIGH					540	
GEAR	1	2	3	4	R	1	2	3	4	R	2326
SPEED	8	11	14	19	15	30	43	56	75	59	ENG. R.P.M.

No. 2097025 - Located on Instrument Panel



No. 2097031 - Located on Instrument Panel



3



19



1



2

18 antifreeze provides  
protection to -20° F.



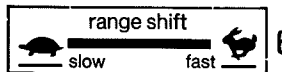
# 9523 TRACTOR

## SHEET METAL, FRAME & SEAT

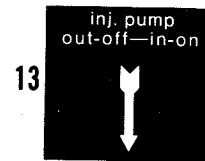
### DECAL SET



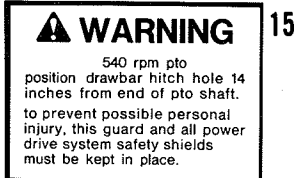
No. 2097033 - Located on Right Wheel Guard



No. 2097025 - Located on Instrument Panel



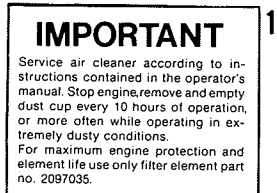
No. 2088505 - Located on Shift Cover



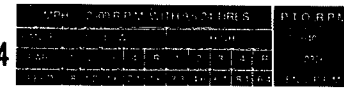
No. 269836 - Located on P.T.O. Shield



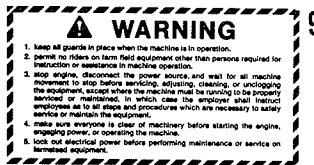
No. 269803 - Located on Top of P.T.O. Shield when equipped with Protective Frame



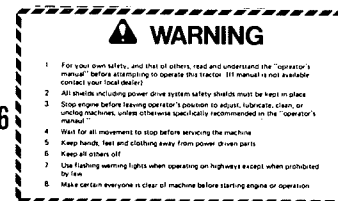
No. 1664409 - Located on Air Cleaner



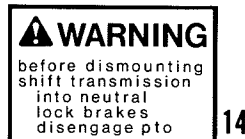
No. 2097024 - Located on Instrument Panel



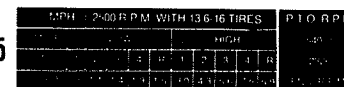
No. 269839 - Located on R.H. Fender



No. 1664408 - Located on L.H. Wheel Guard



No. 269387 - Located on R.H. Wheel Guard



No. 2097025 - Located on Instrument Panel



No. 2097031 - Located on Instrument Panel



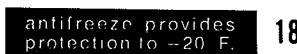
No. 269521 - Located on L.H. Wheel Guard



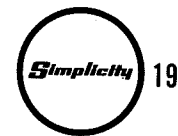
No. 256569 - Located on P.T.O. Shield



No. 2097048 - Located on Instrument Panel



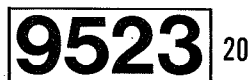
18



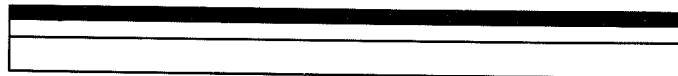
No. 1664407 - Located on Steering Wheel



No. 153186 - Located on Front of Frame

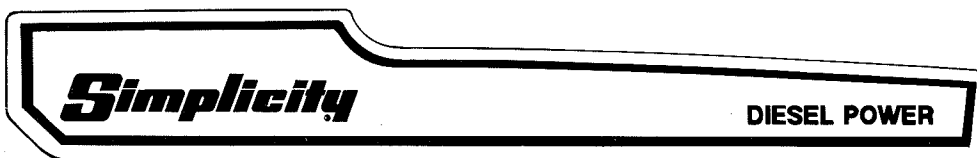


No. 1664263 - Located on Hood, L. &amp; R.H.



3

No. 1664264 - Located on Fenders, L. &amp; R.H.



1

No. 1664261 - Located on R.H. Hood

2

No. 1664262 - Located on L.H. Hood

## DECAL SET

ITEM	NUMBER	QTY.	DESCRIPTION
1	1664261	1	DECAL, hood, R.H.
2	1664262	1	DECAL, hod, L.H.
3	1664264	1	DECAL, stripe
4	2097024	1	DECAL, speed (w/9.5-24 Tires)
5	2097025	1	DECAL, speed (turf)
6	2097029	1	DECAL, range shift
7	2097048	1	DECAL, lights
8	2097031	1	DECAL, starter switch
9	269839	1	DECAL, warning
10	269521	1	DECAL, warning
11	1664409	1	DECAL, air cleaner
12	256569	1	DECAL, danger (P.T.O. shield)
13	2088505	1	DECAL, injection pump
14	269387	1	DECAL, dismounting instr.
15	269836	1	DECAL, warning (P.T.O. shield)
16	1664408	1	DECAL, warning
17	2097033	1	DECAL (Pos. Control)
18	269394	1	DECAL, antifreeze
19	1664407	1	DECAL, trademark, steering wheel
20	1664263	2	DECAL, 9523
21	153166	1	DECAL, Simplicity
22	269803	1	DECAL, danger (P.T.O. shield)





**5020 TRACTOR**  
**SHEET METAL, FRAME & SEAT**

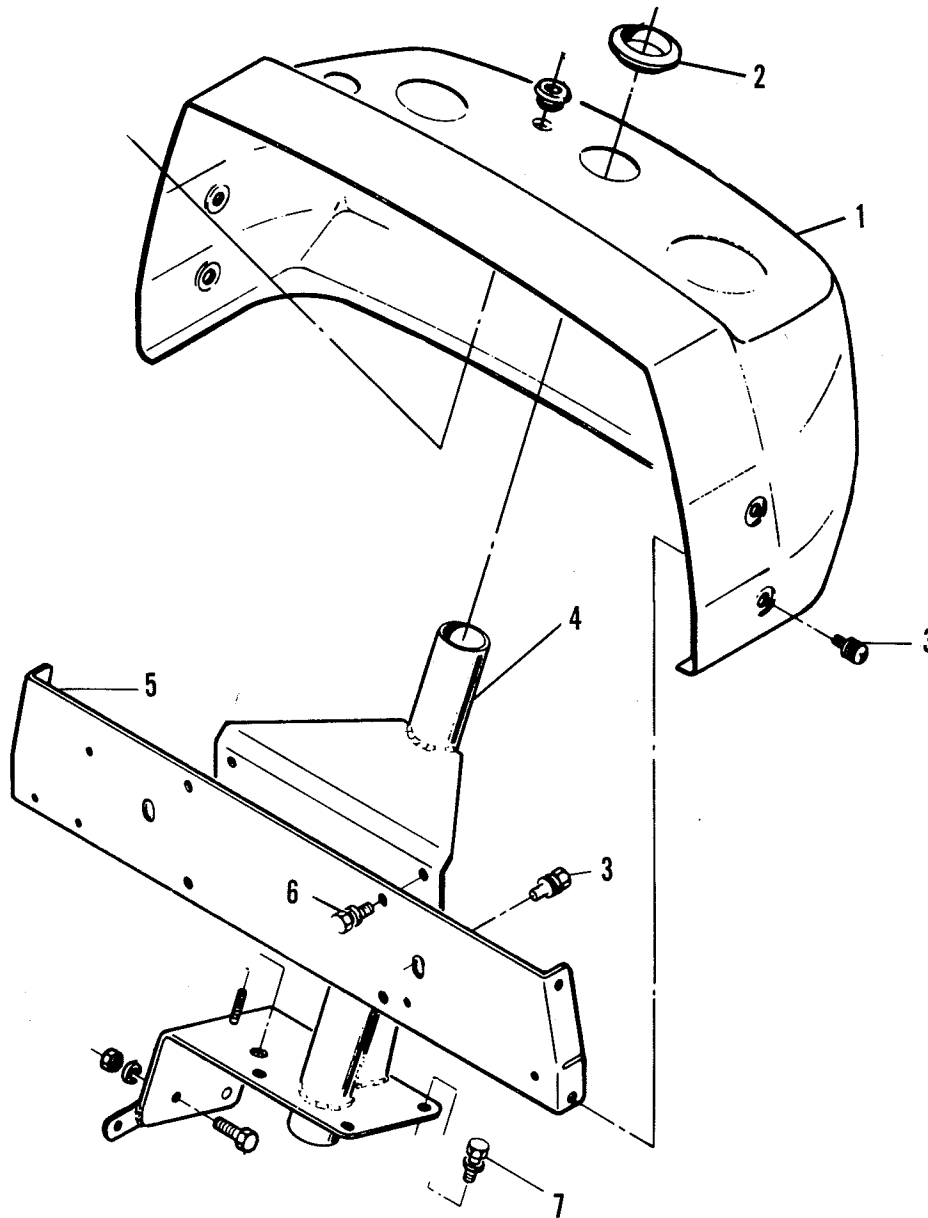
**55**

**DECAL SET**

ITEM	NUMBER	QTY.	DESCRIPTION
—	2097023	1	DECAL SET - Complete (Incl. Items 1 thru 19)
1	2097027	1	DECAL, model design, L.H.
2	2097028	1	DECAL, model design, R.H.
3	924243	1	DECAL, A-C trademark
4	2097024	1	DECAL, speed (w/ 9.5-24 Tires)
5	2097025	1	DECAL, speed (turf)
6	2097029	1	DECAL, range shift
7	2097048	1	DECAL, lights
8	2097031	1	DECAL, starter switch
9	269839	1	DECAL, warning
10	269521	1	DECAL, warning
11	2097032	1	DECAL, air cleaner
12	256569	1	DECAL, danger (P.T.O. shield)
13	2088505	1	DECAL, injection pump
14	269387	1	DECAL, dismounting instr.
15	269836	1	DECAL, warning (P.T.O. shield)
16	269838	1	DECAL, warning
17	2097033	1	DECAL (Pos. Control)
18	269394	1	DECAL, antifreeze
19	2097043	1	DECAL, A-C trademark, steering wheel

**5020 TRACTOR**  
SHEET METAL, FRAME & SEAT

**SHEET METAL & FRAME**  
INSTRUMENT PANEL & STEERING SUPPORT



**5020 TRACTOR**  
SHEET METAL, FRAME & SEAT

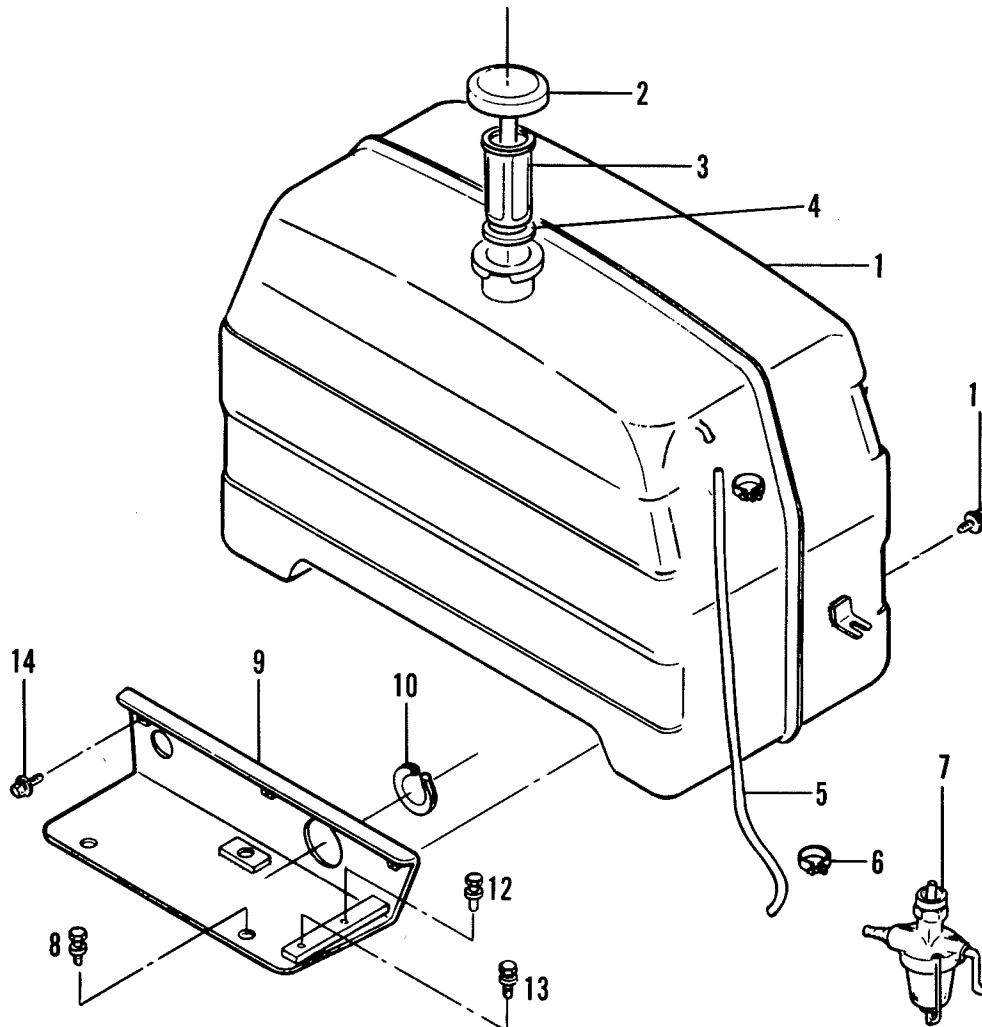
**57**

**SHEET METAL & FRAME**  
INSTRUMENT PANEL & STEERING SUPPORT

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098269	1	INSTRUMENT PANEL
2	2098270	1	BUSHING
3	934067	6	SCREW
4	2097653	1	SUPPORT, steering wheel
5	2098267	1	BRACKET, protector
6	934045	4	CAPSCREW, m8 x 20
7	934048	4	CAPSCREW, m10 x 20

**5020 TRACTOR**  
SHEET METAL, FRAME & SEAT

**FUEL TANK**

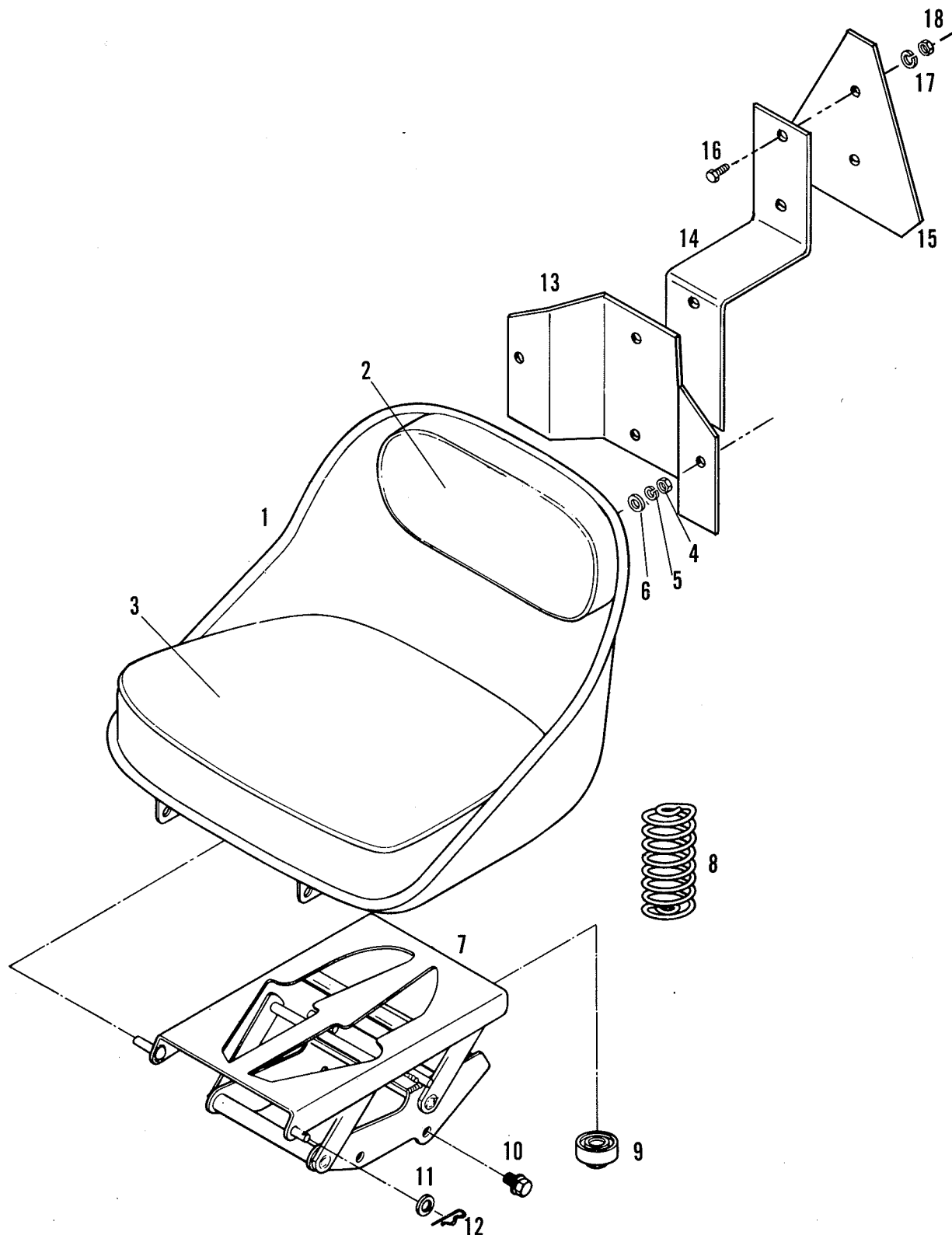


**5020 TRACTOR**  
SHEET METAL, FRAME & SEAT

**59**

**FUEL TANK**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098207	1	TANK ASY., fuel (Incl. Item 1 thru 4)
2	2098588	1	CAP, fuel tank
3	2098209	1	STRAINER
4	2098210	1	GASKET, strainer
5	2098211	1	HOSE, fuel gauge
6	2098212	2	CLAMP
7	2098589	1	FILTER ASY., fuel (Refer to FUEL FILTER Group for Components)
8	934048	3	CAPSCREW
9	2098214	1	SUPPORT, fuel tank
10	2098215	1	GROMMET
11	934052	3	CAPSCREW
12	934045	1	CAPSCREW, m8 x 20
13	934056	1	CAPSCREW, m8 x 16
14	2098590	1	GUIDE, rod

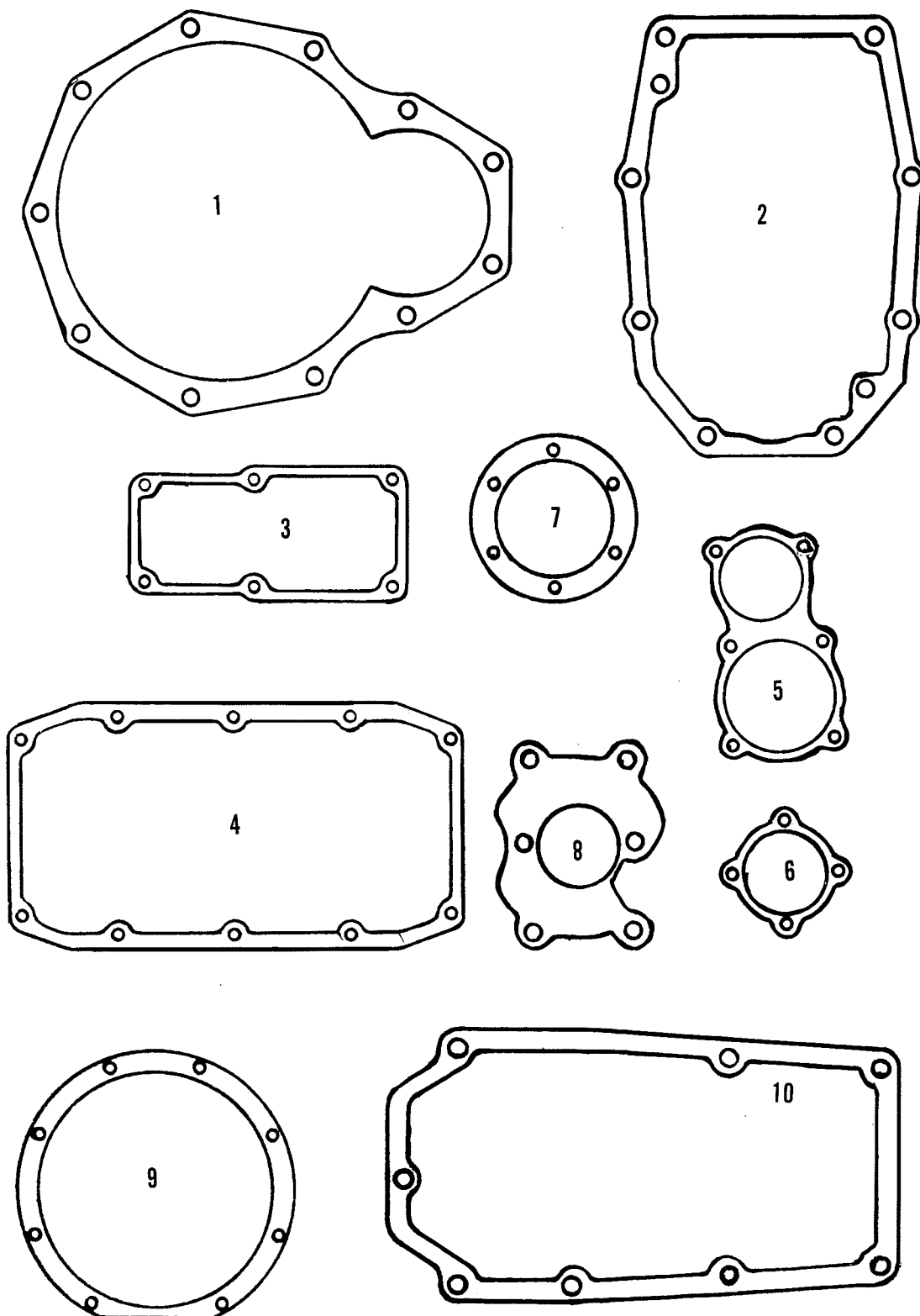
**5020 TRACTOR**  
SHEET METAL, FRAME & SEAT**SEAT**

**5020 TRACTOR**  
**SHEET METAL, FRAME & SEAT**

**61**

**SEAT**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098100	1	FRAME, seat
2	2098101	1	CUSHION, back
3	2098102	1	CUSHION, seat
4	934027	6	NUT, m6
5	934039	6	LOCKWASHER, m6
6	2098103	6	WASHER
7	2098104	1	FRAME, seat
8	2098105	2	SPRING, seat cushion
9	2098106	1	BUMPER
10	934048	4	CAPSCREW, m10 x 20
11	918266	1	WASHER
12	2098354	1	CLIP, hair pin
13	2097049	1	BRACKET, lower SMV
14	2097050	1	BRACKET, upper SMV
15	260977	1	SMV EMBLEM
16	923341	4	CAPSCREW, 1/4NC x 3/4
17	916964	4	LOCKWASHER
18	916622	4	NUT, 1/4NC

GASKET SET  
TRANSMISSION



**5020 TRACTOR**  
DRIVE TRAIN

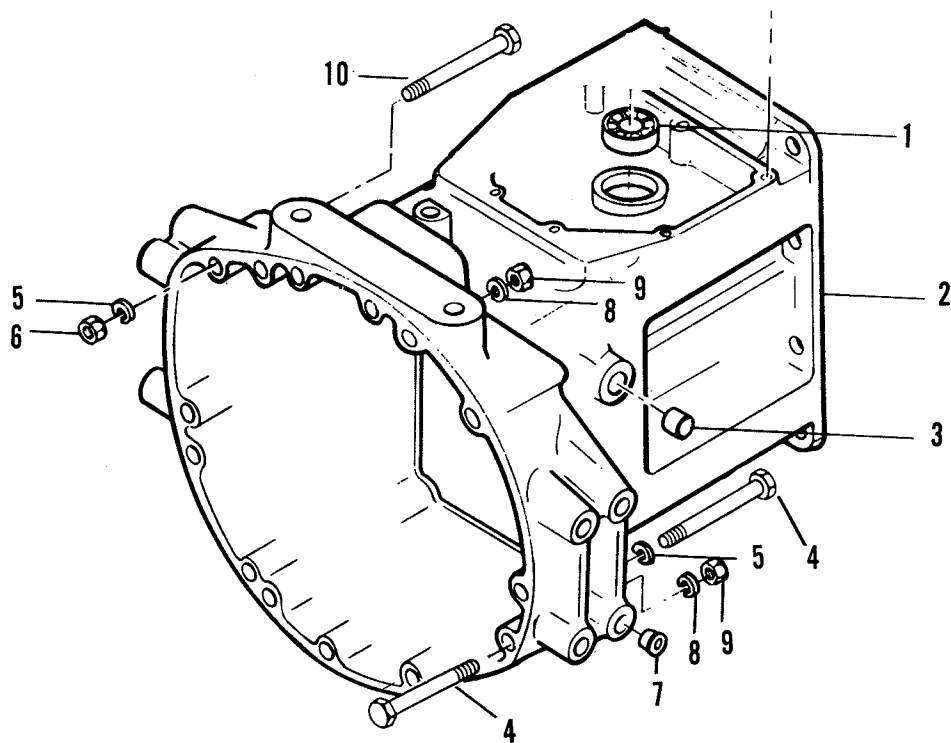
**63**

**GASKET SET**  
TRANSMISSION

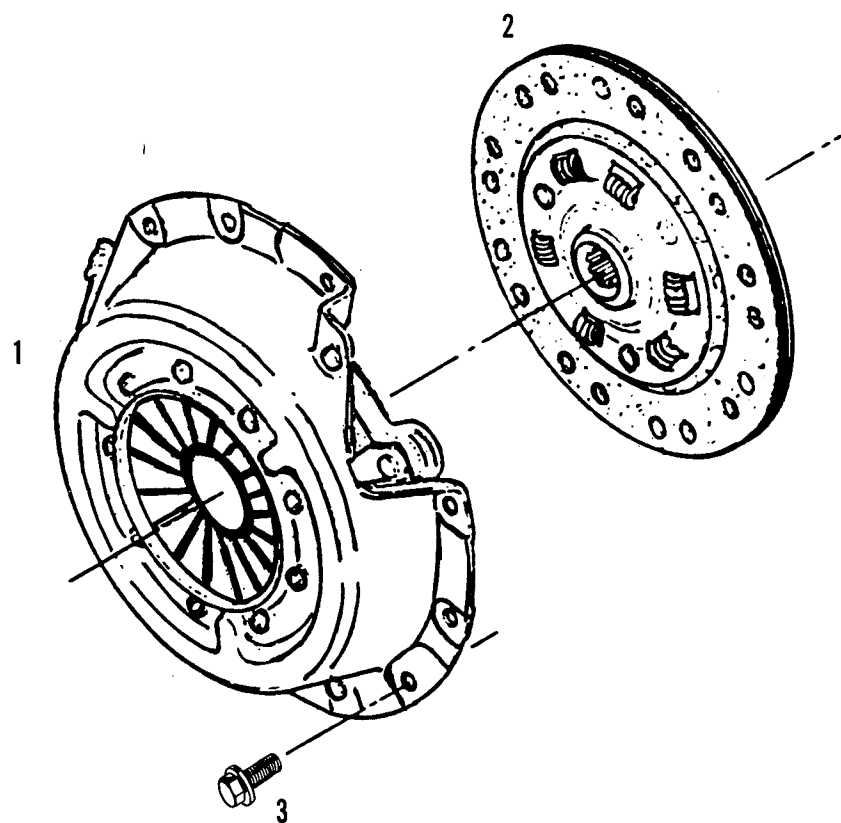
ITEM	NUMBER	QTY.	DESCRIPTION
—	2097975	1	GASKET SET
1	2098022	2	GASKET, sleeve
2	2097987	1	GASKET, rear housing front
3	2097888	1	GASKET, control cover
4	2097877	1	GASKET, shift cover
5	2097867	1	GASKET, front cover
6	2097869	1	GASKET, PTO bearing cover
7	2097965	1	GASKET, bearing retainer, PTO extension
8	2098033	2	GASKET, brake plate
9	2098032	2	GASKET, brake cover
10	2098167	1	HOUSING

# 5020 TRACTOR DRIVE TRAIN

## CLUTCH HOUSING



## CLUTCH



**5020 TRACTOR**  
DRIVE TRAIN

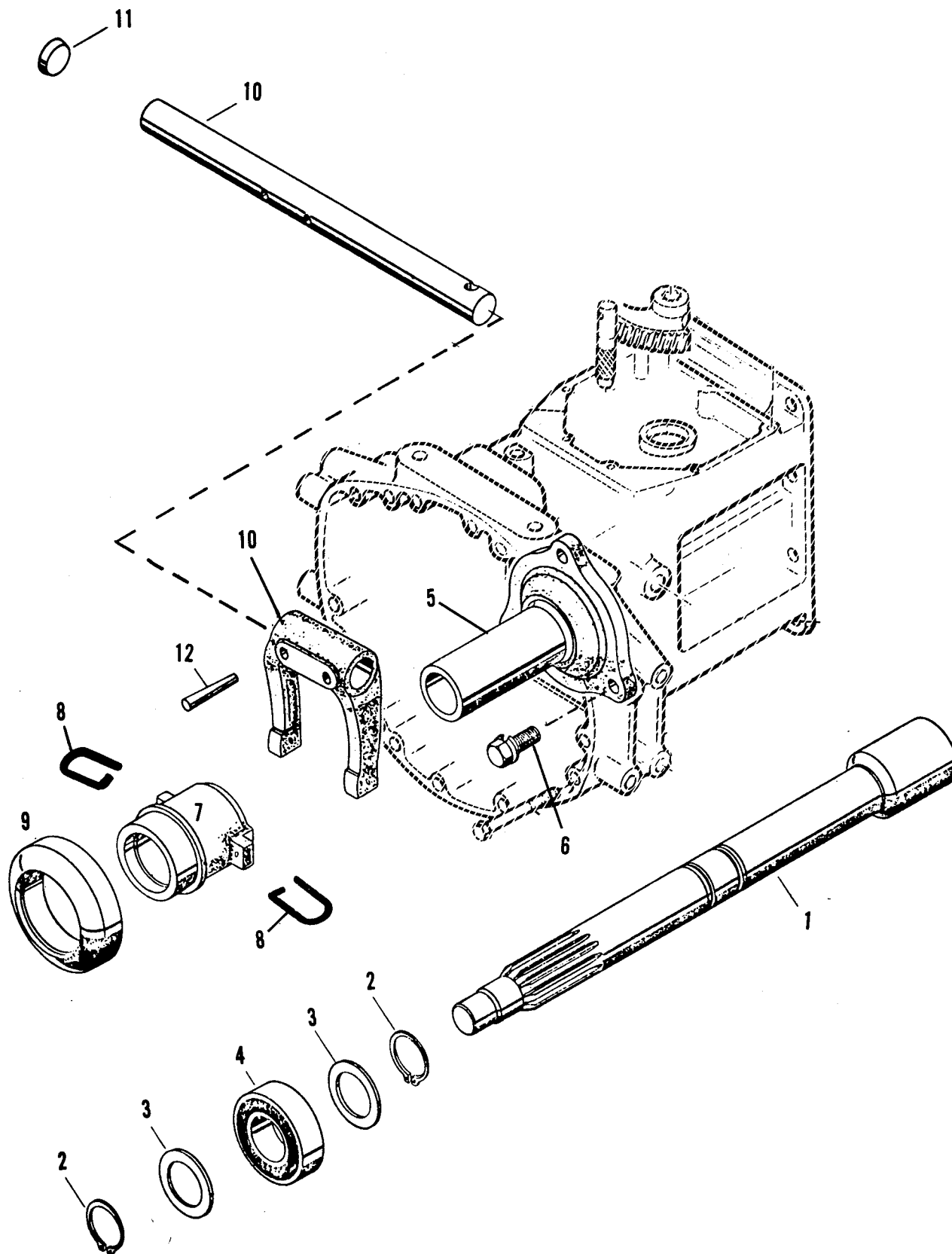
**65**

**CLUTCH**  
HOUSING

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098092	1	BEARING
2	2098093	1	HOUSING, clutch
3	2098094	2	BUSHING
4	2098095	6	CAPSCREW
5	934041	2	LOCKWASHER, m10
6	934029	2	NUT, m10
7	2098099	8	PLUG
8	934042	2	LOCKWASHER, m12
9	934030	2	NUT, m12
10	2098015	2	CAPSCREW

**CLUTCH**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098568	1	PLATE ASY., pressure
2	2098360	1	DISC ASY., driven
3	934044	6	CAPSCREW, w/lockwasher, m8 x 18

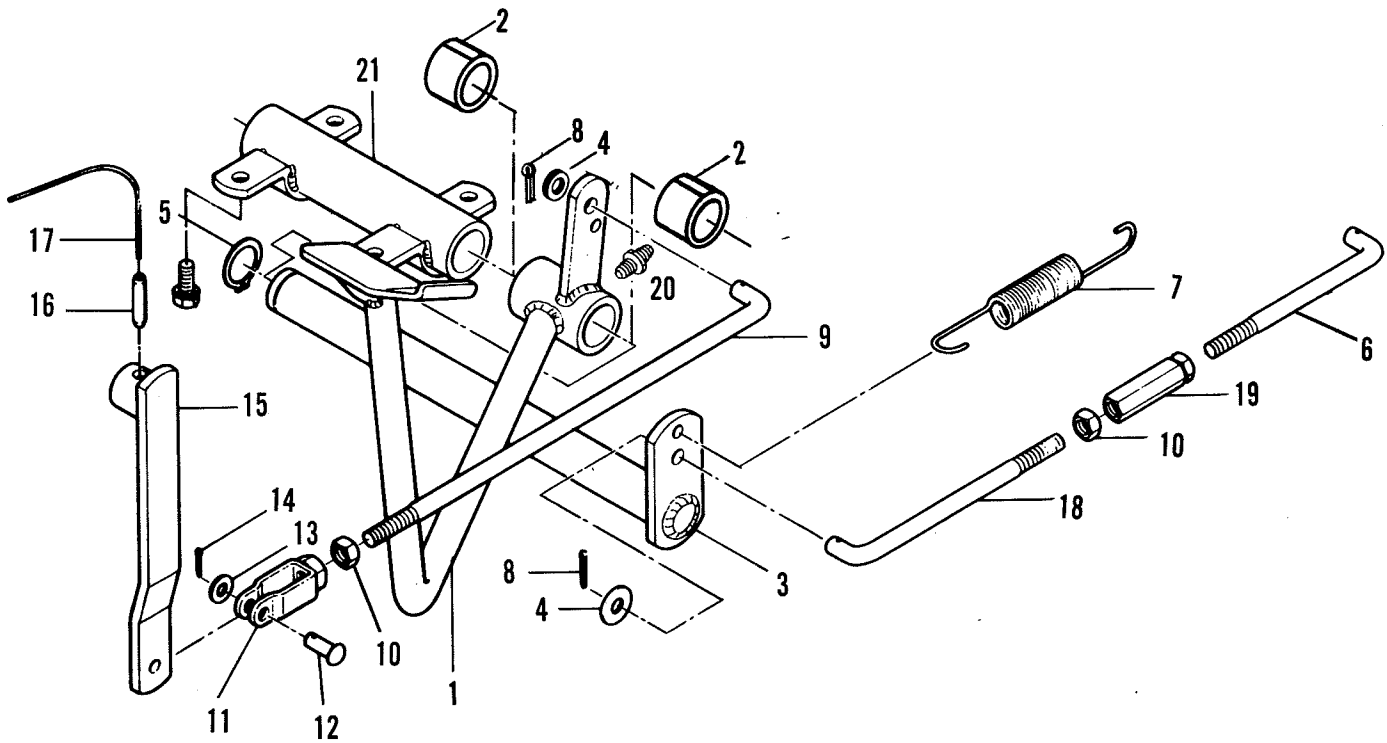
CLUTCH  
INPUT SHAFT

**5020 TRACTOR**  
**DRIVE TRAIN**

**67**

**CLUTCH**  
**INPUT SHAFT**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098060	1	SHAFT, input
2	934008	2	RING, m25, snap, external
3	2097936	2	WASHER, thrust
4	2098062	1	BEARING, ball (Seal type)
5	2098052	1	GUIDE, release bearing
6	934078	3	CAPSCREW, m8 x 22, w/lockwasher
7	2098053	1	SLEEVE, release bearing
8	2098055	2	SPRING, return
9	2098054	1	BEARING, release - clutch
10	2098058	1	SHIFTER ASY., (Incl. Items 10 & 11)
11	2098056	1	PLUG
12	2098057	2	PIN, tapered

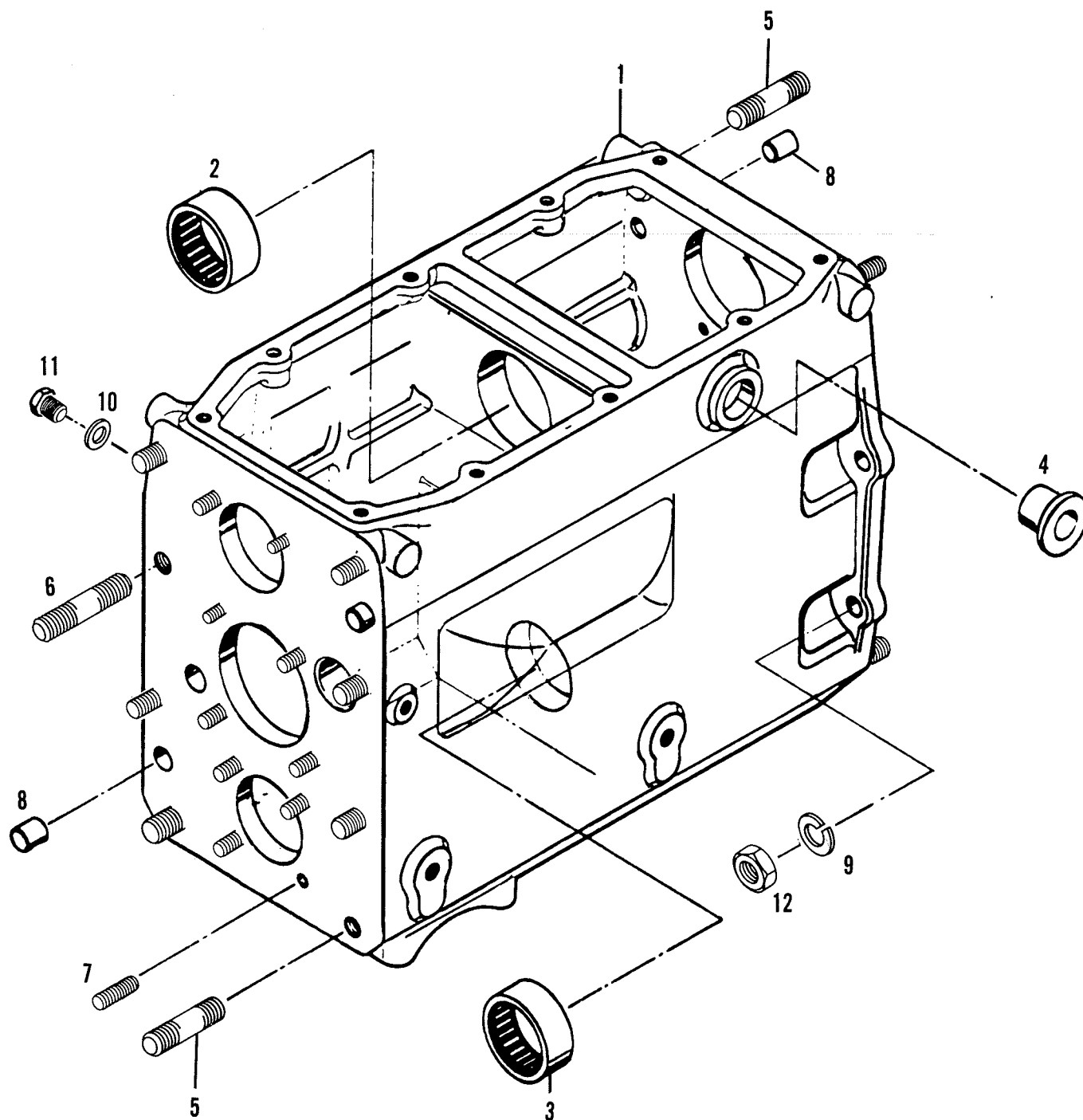
CONTROLS  
CLUTCH

**5020 TRACTOR**  
DRIVE TRAIN

**69**

**CONTROLS**  
CLUTCH

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098119	1	PEDAL, clutch
2	2098116	2	BUSHING
3	2098125	1	SHAFT
4	918266	5	WASHER
5	934008	1	RING, m25 snap
6	2098128	2	ROD (r), brake
7	2098129	3	SPRING, pedal return
8	918448	5	PIN, cotter
9	2098120	1	ROD, clutch
10	934029	3	NUT, m10
11	2098121	1	CLEVIS, clutch rod
12	2098122	1	RIVET
13	919326	1	WASHER
14	923360	1	PIN, cotter
15	2098123	1	LEVER, clutch
16	934037	1	PIN, m8 x 32 roll
17	2098124	1	WIRE
18	2098126	2	ROD (F), brake
19	2098127	2	TURNBUCKLE
20	2073352	1	FITTING LUBE
21	2098117	1	SUPPORT

TRANSMISSION  
HOUSING

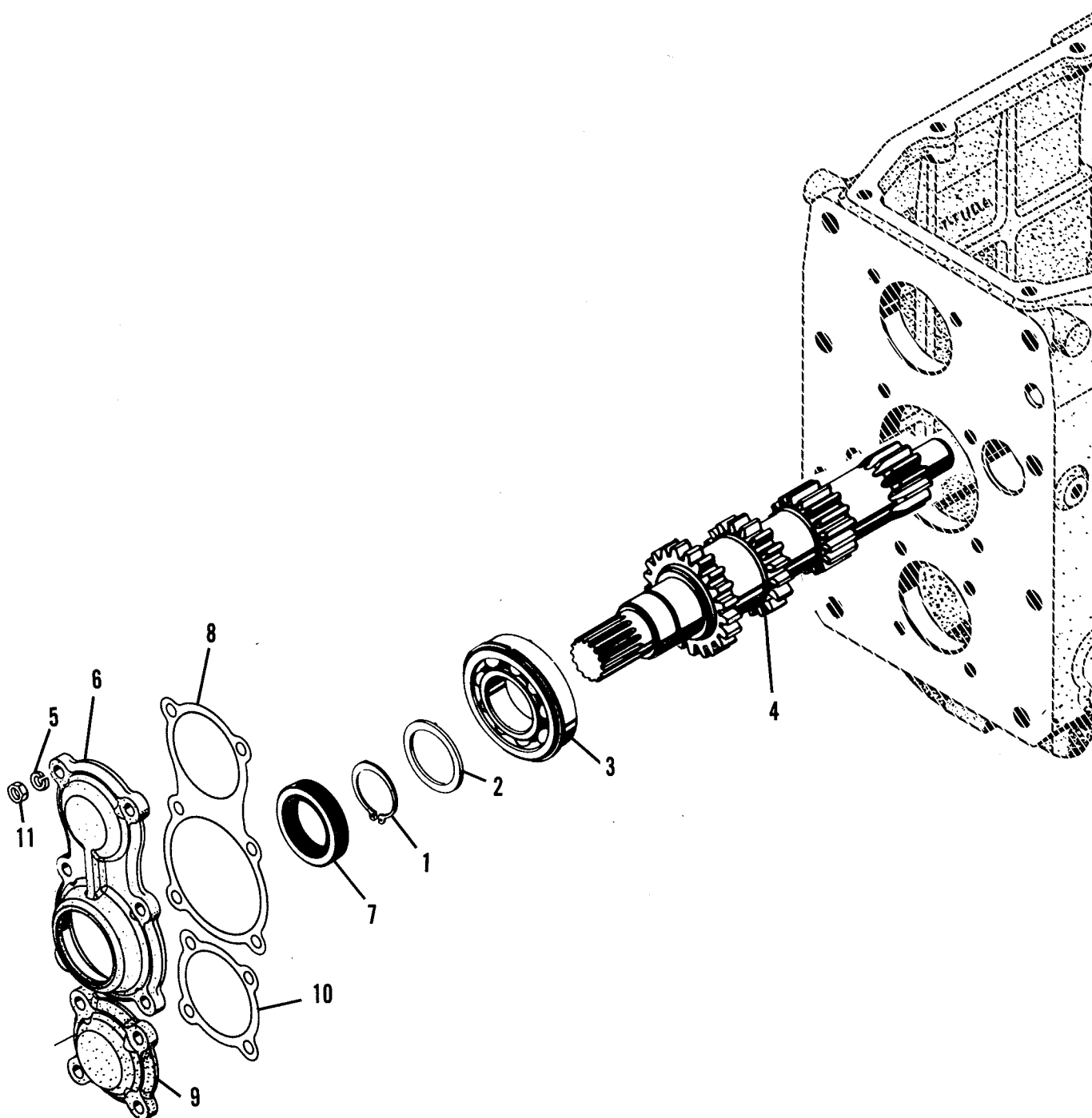


5020 TRACTOR  
DRIVE TRAIN

71

TRANSMISSION  
HOUSING

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097864	1	HOUSING ASY., transmission (Incl. Items 2 thru 8)
2	2097928	1	BEARING, shell type needle
3	2097961	1	BEARING, shell type needle
4	2097865	2	GUIDE, shift lever
5	934023	11	STUD, m12 x 28 (Seal lock No. 10)
6	2098620	1	STUD, m12 x 48 (Seal lock No. 10)
7	934020	10	STUD, m8 x 18 (Seal lock No. 10)
8	934071	4	PIN, dowel
9	934042	4	LOCKWASHER, m12
10	2097874	1	WASHER, seal
11	2097875	1	SCREW, lock, (For oil gauge)
12	934030	4	NUT, m12

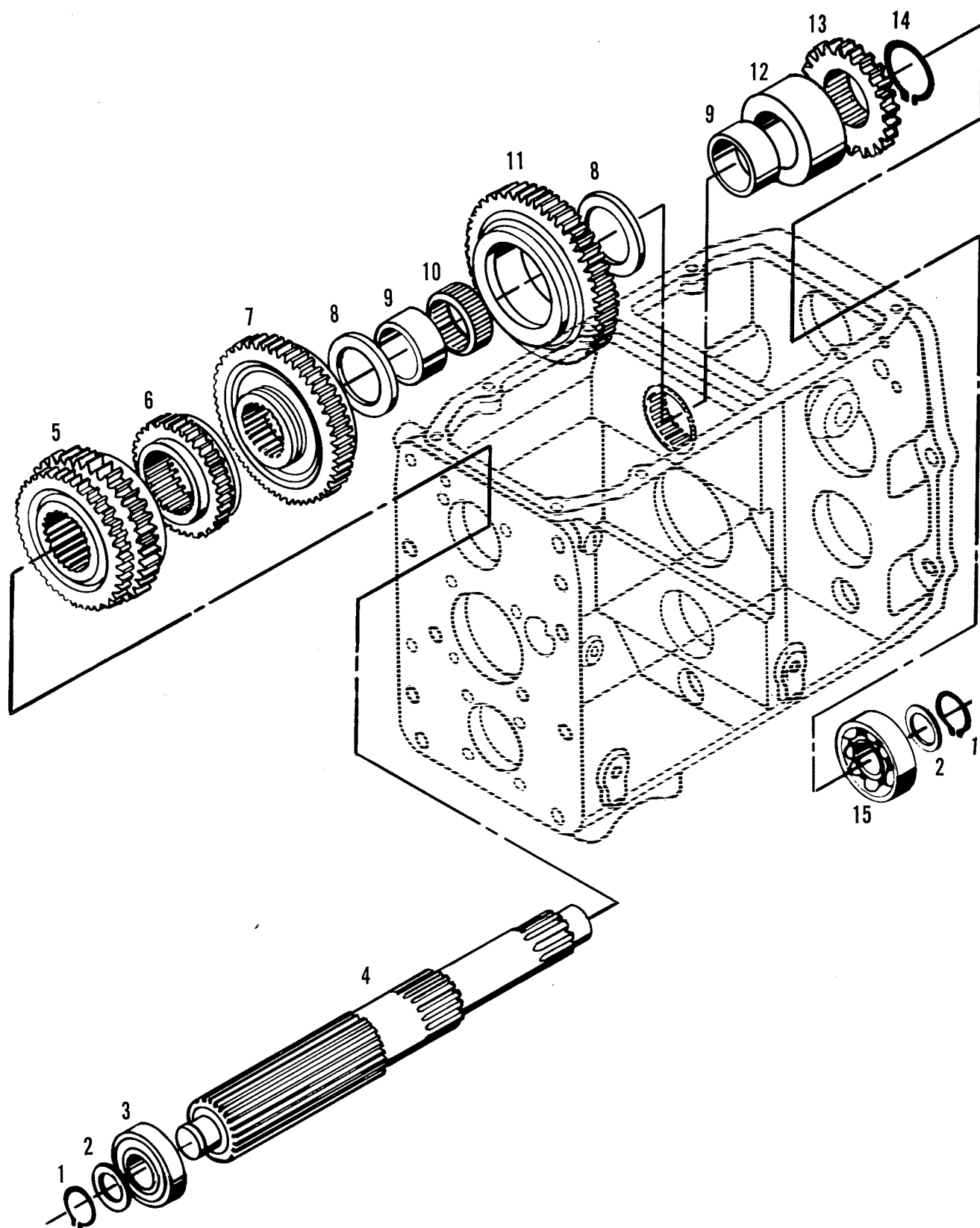
TRANSMISSION  
MAINSHAFT & COVERS

**5020 TRACTOR**  
DRIVE TRAIN

**73**

**TRANSMISSION**  
MAINSHAFT & COVERS

ITEM	NUMBER	QTY.	DESCRIPTION
1	934010	1	RING, m35, snap external
2	2097919	1	WASHER, thrust
3	2097938	1	BEARING ASY. (Incl. SNAP RING)
4	2097940	1	SHAFT, main
5	934040	10	LOCKWASHER
6	2097866	1	COVER ASY., front (Incl. Item 7)
7	2097870	1	SEAL, oil
8	2087867	1	GASKET, front cover
9	2097868	1	COVER, P.T.O. bearing
10	2097869	1	GASKET, P.T.O. bearing cover
11	934028	10	NUT, m8

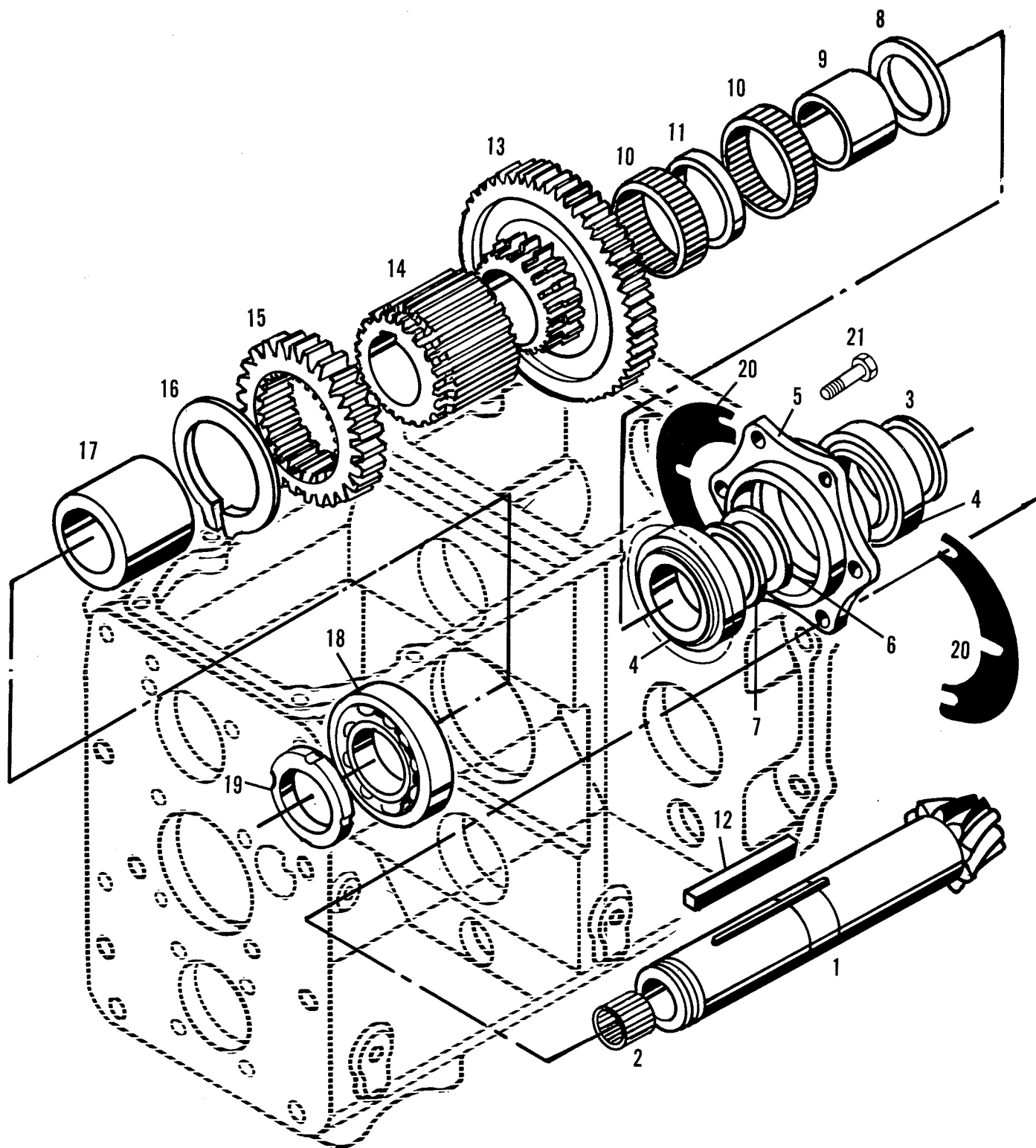
TRANSMISSION  
COUNTERSHAFT

**5020 TRACTOR**  
DRIVE TRAIN

**75**

**TRANSMISSION**  
COUNTERSHAFT

ITEM	NUMBER	QTY.	DESCRIPTION
1	934008	2	RING, m25, snap - external
2	2097936	2	WASHER, thrust
3	2097937	1	BEARING ASY. (Incl. SNAP RING)
4	2097921	1	SHAFT, counter
5	2097923	1	GEAR, 3rd - 4th - countershaft
6	2097924	1	GEAR, reverse - countershaft
7	2097922	1	GEAR, 2nd - countershaft
8	2097929	2	WASHER, thrust
9	2097926	2	RING, inner
10	2097927	1	BEARING, needle
11	2097910	1	GEAR, 1st - countershaft
12	2098342	1	COLLAR, distance
13	2097925	1	GEAR, 23 teeth - countershaft
14	934076	1	RING, m45, snap - external
15	2097939	1	BEARING, ball

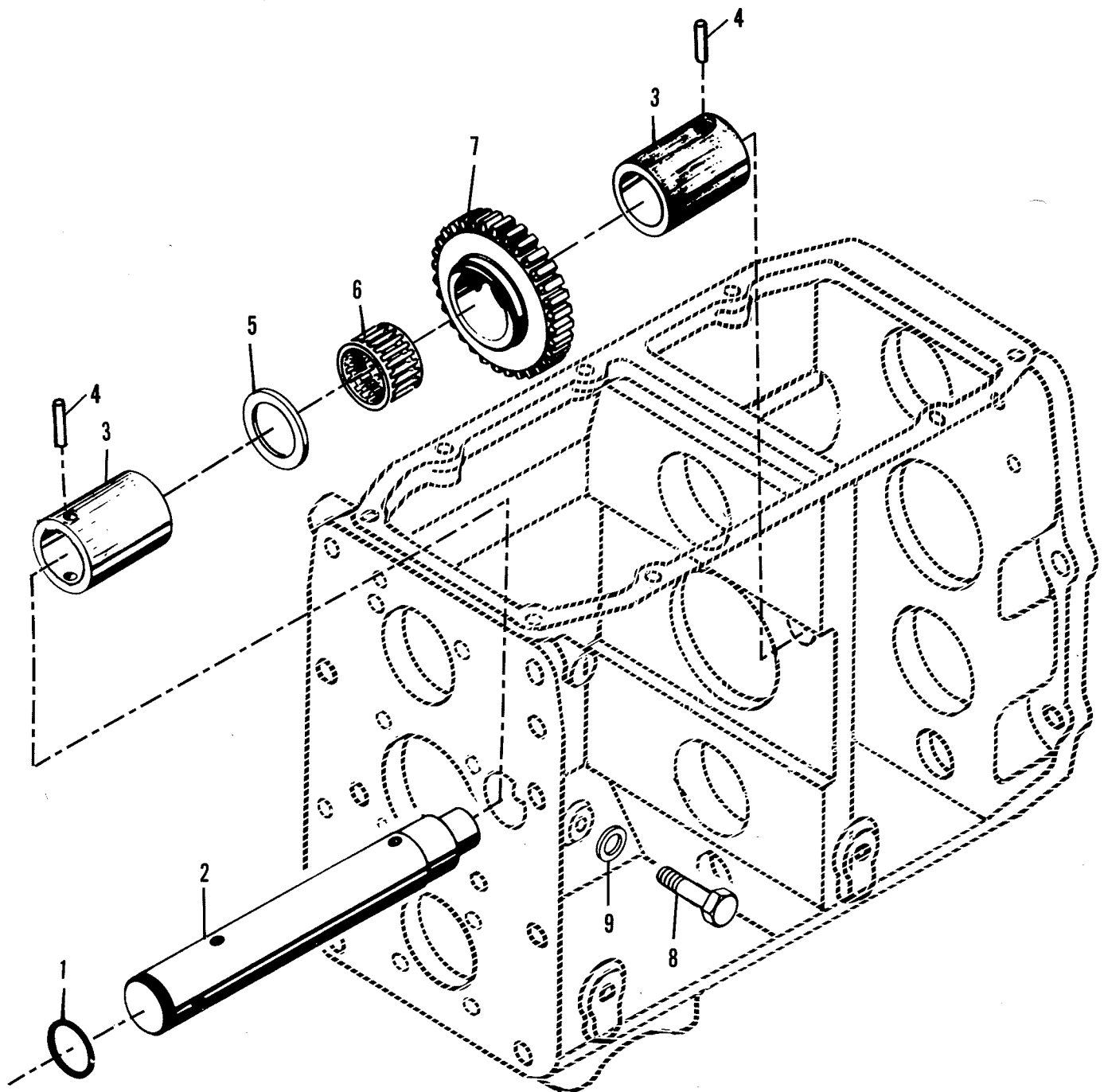
TRANSMISSION  
HI & LO RANGE GEARS & SHAFT

5020 TRACTOR  
DRIVE TRAIN

77

TRANSMISSION  
HI & LO RANGE GEARS & SHAFT

ITEM	NUMBER	QTY.	DESCRIPTION
1	-----	1	SHAFT, pinion - drive (Not serviced; order 2098001 SHAFT & RING GEAR KIT)
2	2097920	1	BEARING, needle
3	2097947	1	WASHER, thrust
4	2097981	2	BEARING, tapered roller
5	2097942	1	CASE, bearing - drive pinion
6	2097948	*	WASHER (0.1)
	2098003	*	WASHER (0.15)
	2098000	*	WASHER (0.2)
	2098004	*	WASHER (1.0)
			} (Select)
7	2097949	1	SPACER, drive pinion
8	2097952	2	WASHER, thrust
9	2097950	1	RING, inner - shell type needle bearing
10	2097951	2	BEARING, needle
11	2098368	1	COLLAR, distance - needle bearing
12	2097954	1	KEY
13	2097944	1	GEAR, lo range
14	2097946	1	COLLAR, hi & lo range
15	2097945	1	GEAR, sliding - hi & lo range
16	934113	1	RING, m65, snap - external
17	2097941	1	COLLAR, distance
18	2097980	1	BEARING, ball
19	2097953	1	NUT, rolling bearing
20	2097955	*	SHIM (0.1)
	2097956	*	SHIM (0.2)
	2097958	*	SHIM (0.4)
			} (Select )
21	934046	6	CAPSCREW, m8 x 25, w/lockwasher

TRANSMISSION  
REVERSE GEAR

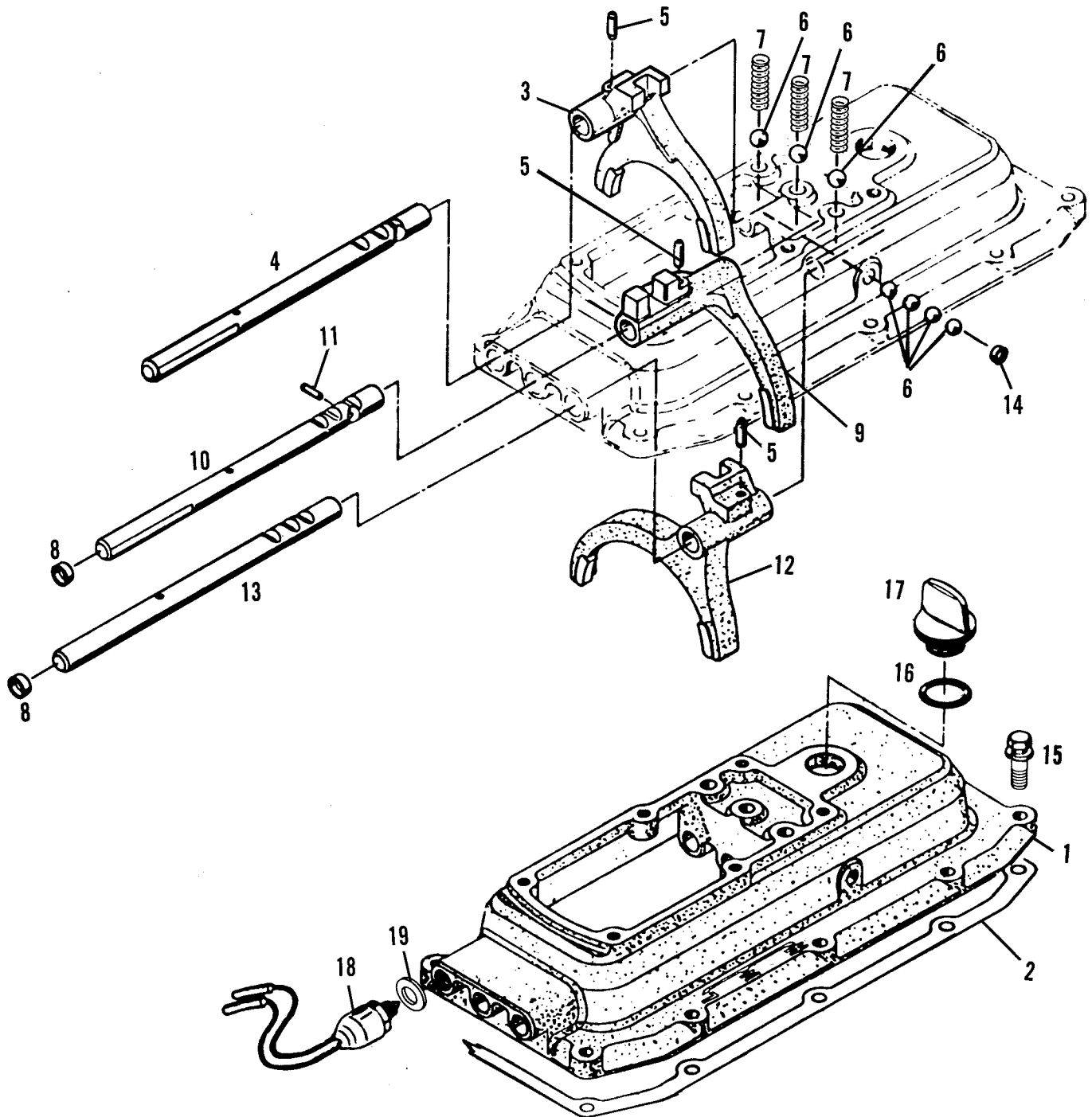


**5020 TRACTOR**  
DRIVE TRAIN

**79**

**TRANSMISSION**  
REVERSE GEAR

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097934	1	O-RING
2	2097930	1	SHAFT, reverse - idler
3	2097935	2	COLLAR, distance - reverse idler shaft
4	934077	2	PIN, m6 x 18 lock
5	2097933	*	WASHER, thrust (2.9)
	2098160	*	WASHER, thrust (3.2)
	2098281	*	WASHER, thrust (3.5)
			(Select one)
6	2097932	1	BEARING, needle
7	2097931	1	GEAR, reverse - idler
8	2097873	1	SCREW, lock
9	2097872	1	WASHER, seal

TRANSMISSION  
GEARSHIFT

**5020 TRACTOR**  
**DRIVE TRAIN**

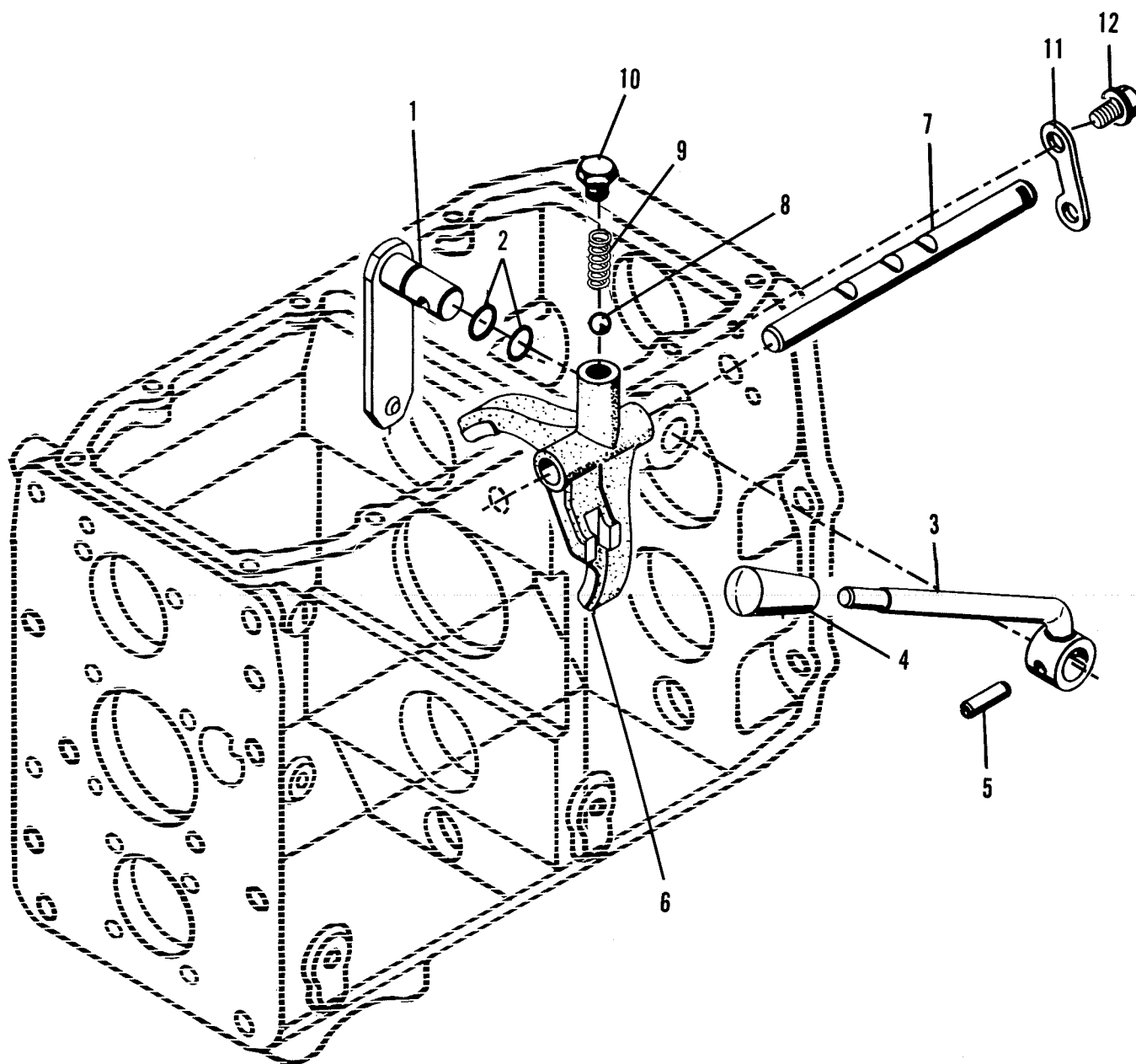
**81**

**TRANSMISSION**  
**GEARSHIFT**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097876	1	COVER, shift
2	2097877	1	GASKET, shift cover
3	2097884	1	FORK, reverse
4	2097885	1	ROD, reverse
5	934073	3	PIN, m5 x 18 lock
6	2097917	7	BALL
7	2097886	3	SPRING, detent
8	2097878	2	PLUG, m14
9	2097880	1	FORK, 1st - 2nd
10	2098359	1	ROD, 1st - 2nd
11	2097896	1	PIN, interlock
12	2097882	1	FORK, 3rd - 4th
13	2098579	1	ROD, 3rd - th
14	2097879	1	PLUG, m10.5
15	934046	10	CAPSCREW, m8 x 25, w/lockwasher (Seal lock No. 10)
16	2097912	1	O-RING
17	2097913	1	PLUG, oil
18	2098272	1	SWITCH ASY., safety, start - transmission
19	2098312	1	GASKET

## 5020 TRACTOR

DRAIN TRAIN

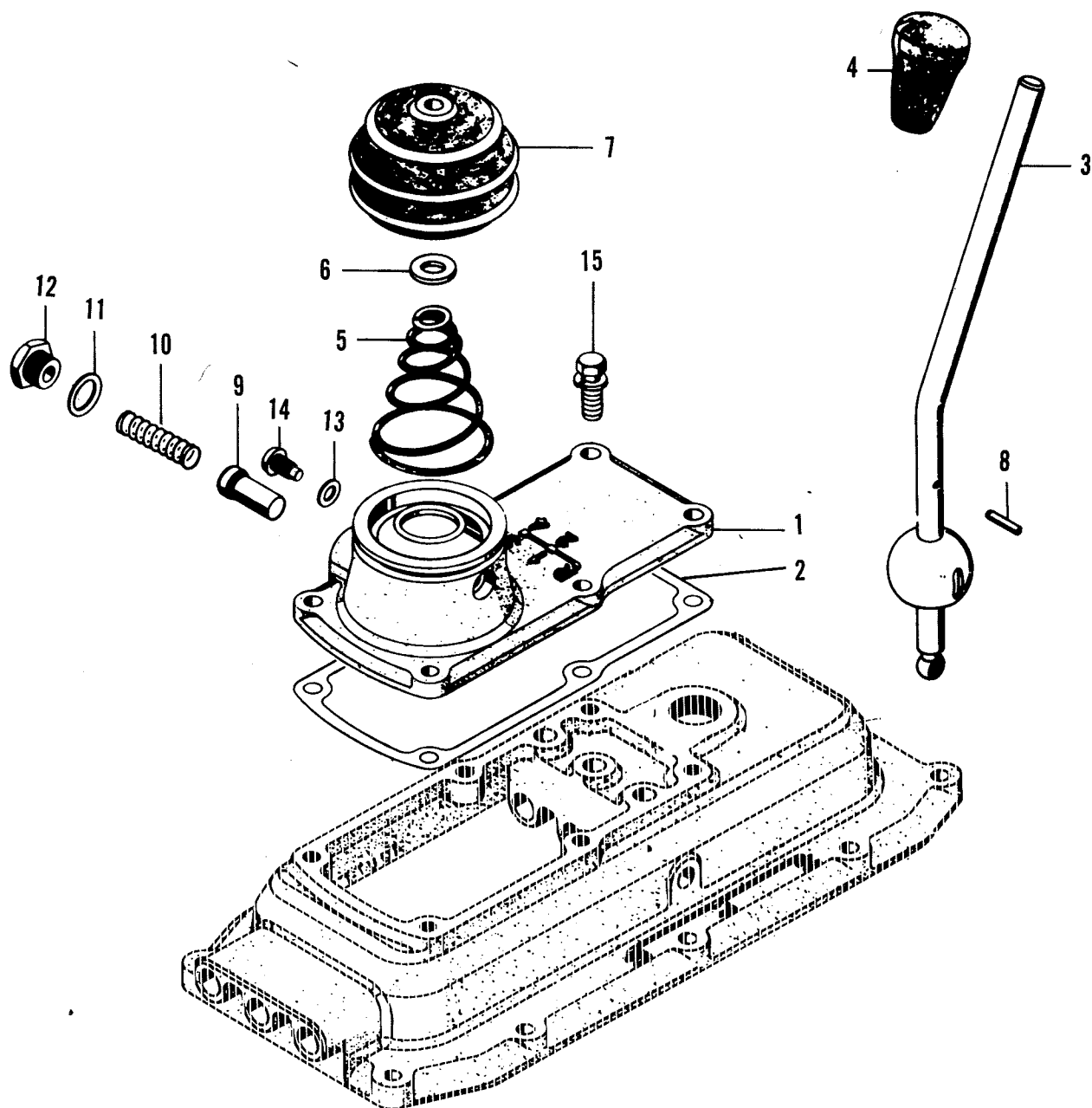
TRANSMISSION  
RANGE SHIFT CONTROL

**5020 TRACTOR**  
**DRIVE TRAIN**

**83**

**TRANSMISSION**  
**RANGE SHIFT CONTROL**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097902	1	LEVER, shift
2	2097904	2	O-RING
3	2097903	1	LEVER ASY., control (Incl. Item 4)
4	2097915	1	KNOB, control lever, green
5	934002	1	PIN, m8 x 28 lock
6	2097899	1	FORK, hi & lo range
7	2097900	1	ROD, shifter, hi & lo range
8	2097917	1	BALL, detent
9	2097886	1	SPRING, detent
10	2097914	1	SCREW, detent
11	2097901	1	STOPPER, shifter rod
12	934048	2	CAPSCREW, m10 x 20, w/lockwasher

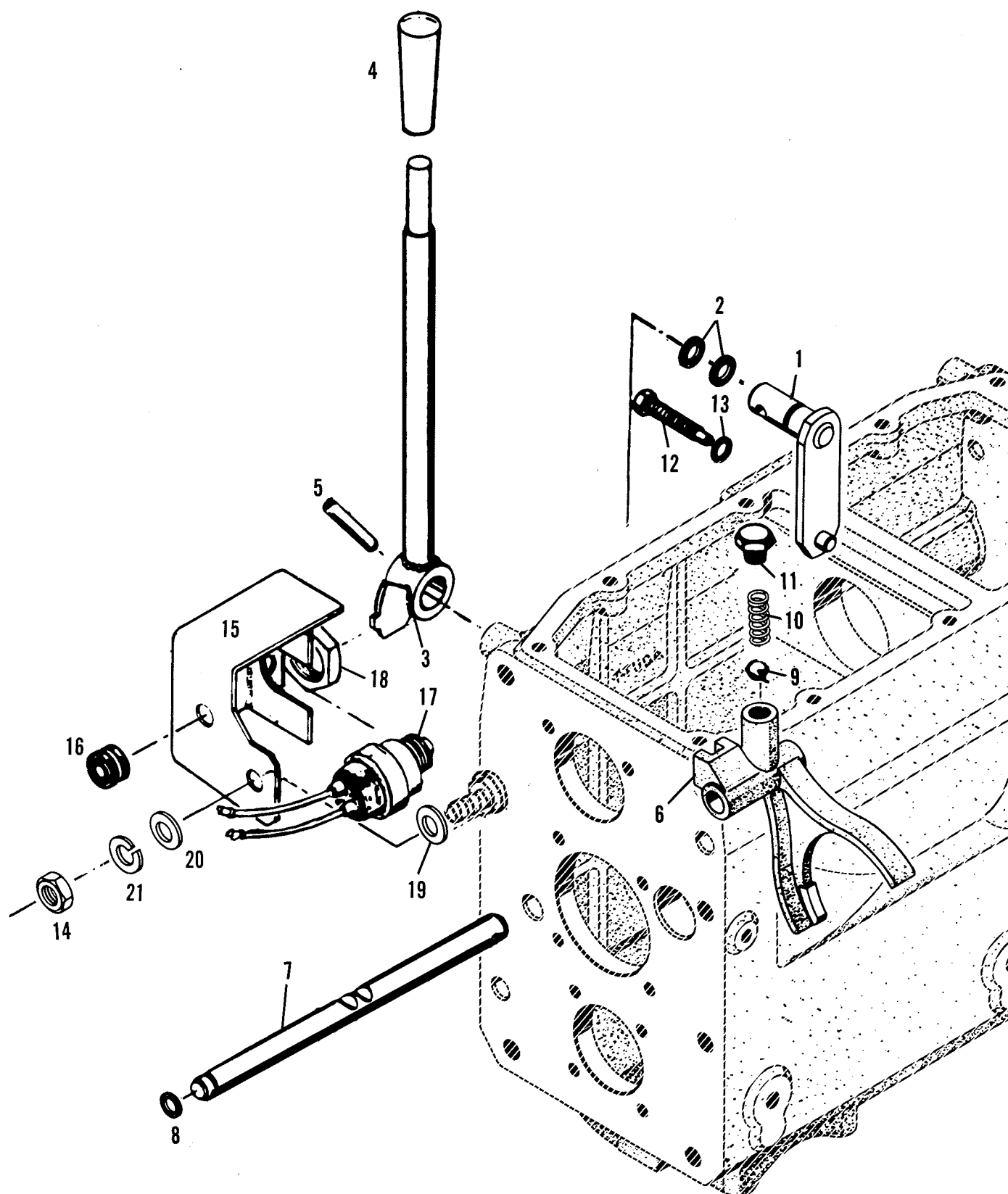
TRANSMISSION  
GEARSHIFT & LINKAGE

**5020 TRACTOR**  
DRIVE TRAIN

**85**

**TRANSMISSION**  
GEARSHIFT & LINKAGE

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097887	1	COVER, control
2	2097888	1	GASKET, control cover
3	2097898	1	LEVER, shift
4	2097889	1	KNOB, shift lever
5	2097890	1	SPRING
6	912007	1	WASHER
7	2097895	1	COVER, dust
8	934001	1	PIN, m4 x 20 lock
9	2097892	1	PIN
10	2097893	1	SPRING
11	2098312	1	GASKET
12	2097894	1	SCREW, lock
13	934014	2	GASKET
14	2097891	2	SCREW, lock
15	934046	6	CAPSCREW, m8 x 25, w/lockwasher (Seal lock No. 10)

TRANSMISSION  
P.T.O. SHIFT CONTROL

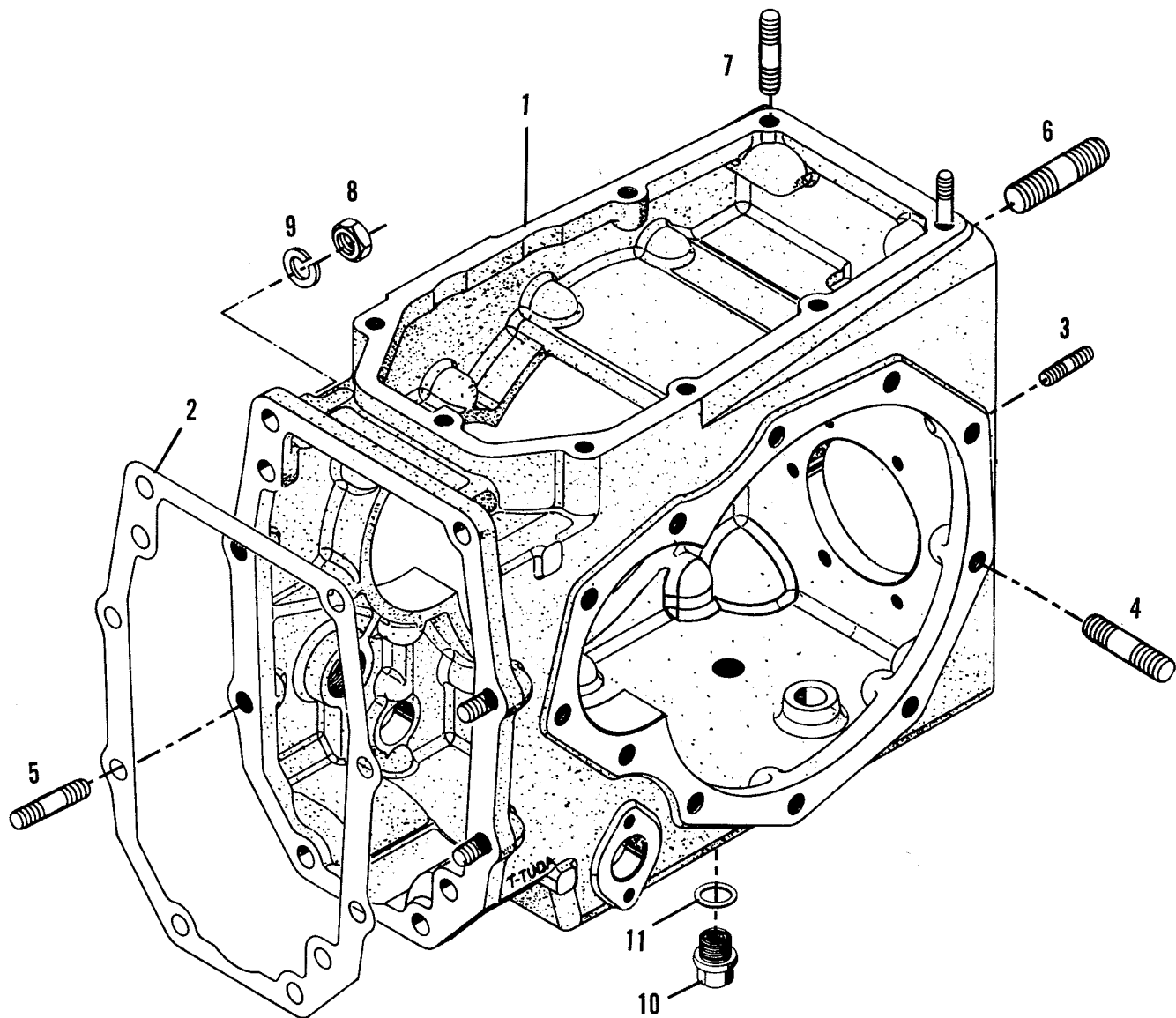


5020 TRACTOR  
DRIVE TRAIN

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TRANSMISSION  
P.T.O. SHIFT CONTROL

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097908	1	LEVER, shift - P.T.O.
2	2097904	2	O-RING
3	2097909	1	LEVER ASY., P.T.O. control (Incl. Item 4)
4	2097916	1	KNOB, control lever (red)
5	934002	1	PIN, m8 x 28 lock
6	2097905	1	FORK, P.T.O.
7	2097906	1	ROD, shifter, P.T.O.
8	2097907	1	O-RING
9	2097917	1	BALL, detent
10	2097886	1	SPRING, detent
11	2097914	1	SCREW, detent
12	2097871	1	SCREW, lock - P.T.O. shifter rod
13	2097872	1	WASHER, seal
14	934030	1	NUT, m12
15	2098313	1	COVER, switch
16	2098157	1	GROMMET
17	2098314	1	SWITCH ASY., safety start - P.T.O.
18	2098339	1	NUT, m14
19	2098340	*	WASHER (0.5)
	2098341	*	WASHER (1)
20	912007	1	WASHER, m12
21	934042	1	LOCKWASHER, m12

DIFFERENTIAL & FINAL DRIVE  
HOUSING

**5020 TRACTOR**  
DRIVE TRAIN

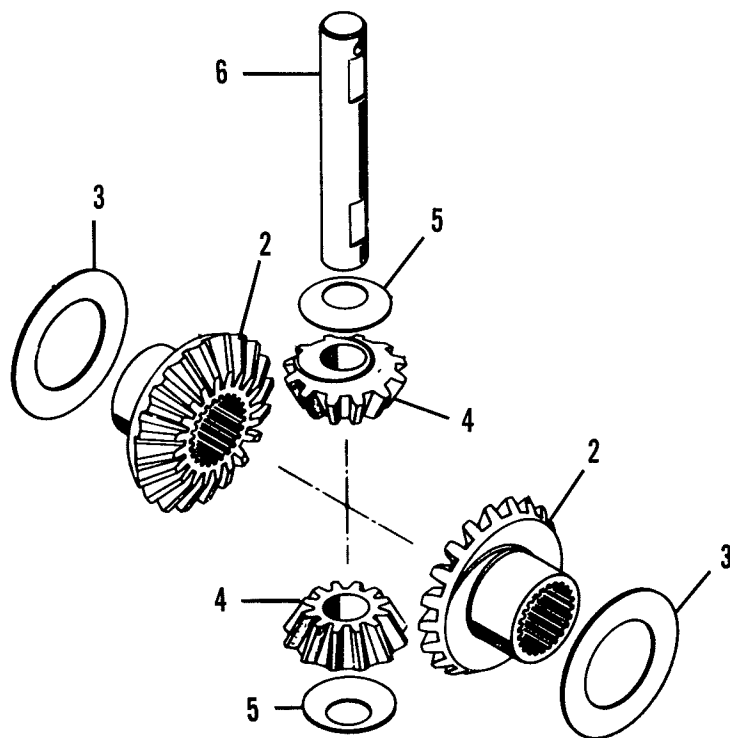
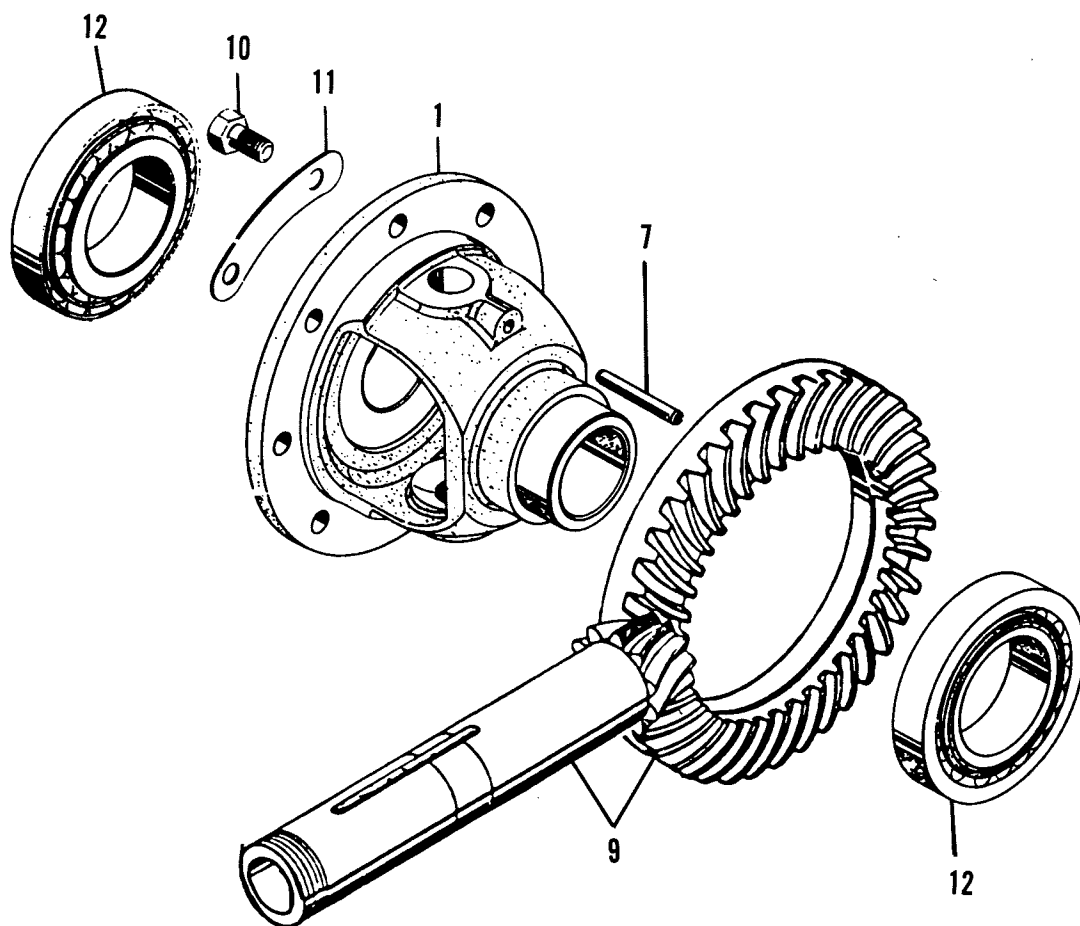
**89**

**DIFFERENTIAL & FINAL DRIVE**  
HOUSING

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097986	1	HOUSING ASY., rear (Incl. Items 3 thru 7)
2	2097987	1	GASKET, front
3	934020	6	STUD, m8 x 18 (Seal lock No. 10)
4	934024	2	STUD, m12 x 40
5	934023	4	STUD, m12 x 28
6	2097988	4	STUD, m16 x 29
7	934036	2	STUD, m10 x 50
8	934030	4	NUT, m12
9	934042	4	LOCKWASHER, m12
10	2097532	1	PLUG, drain
11	2097533	1	GASKET, drain plug

5020 TRACTOR  
DRIVE TRAIN

## DIFFERENTIAL

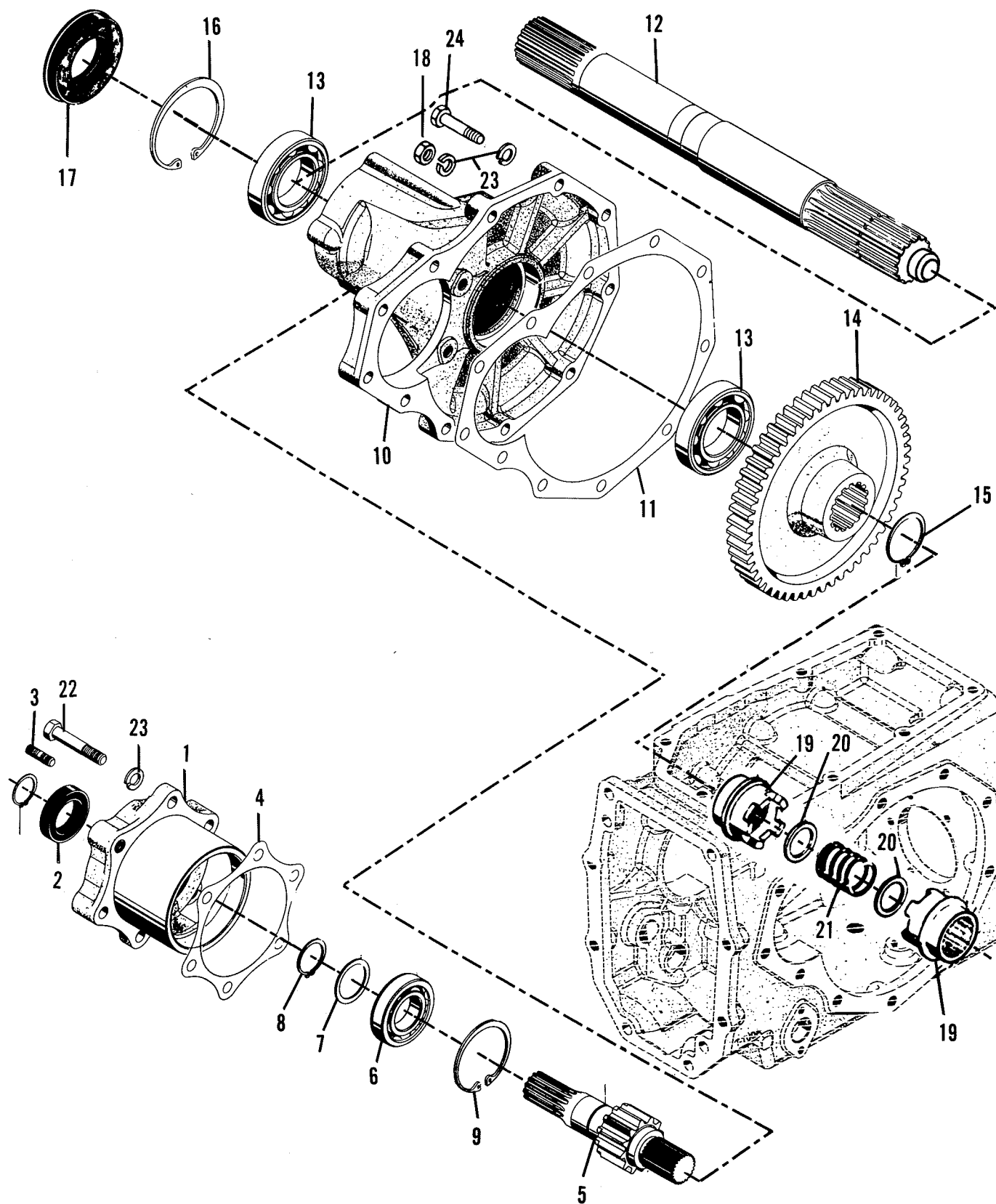


**5020 TRACTOR**  
DRIVE TRAIN

**91**

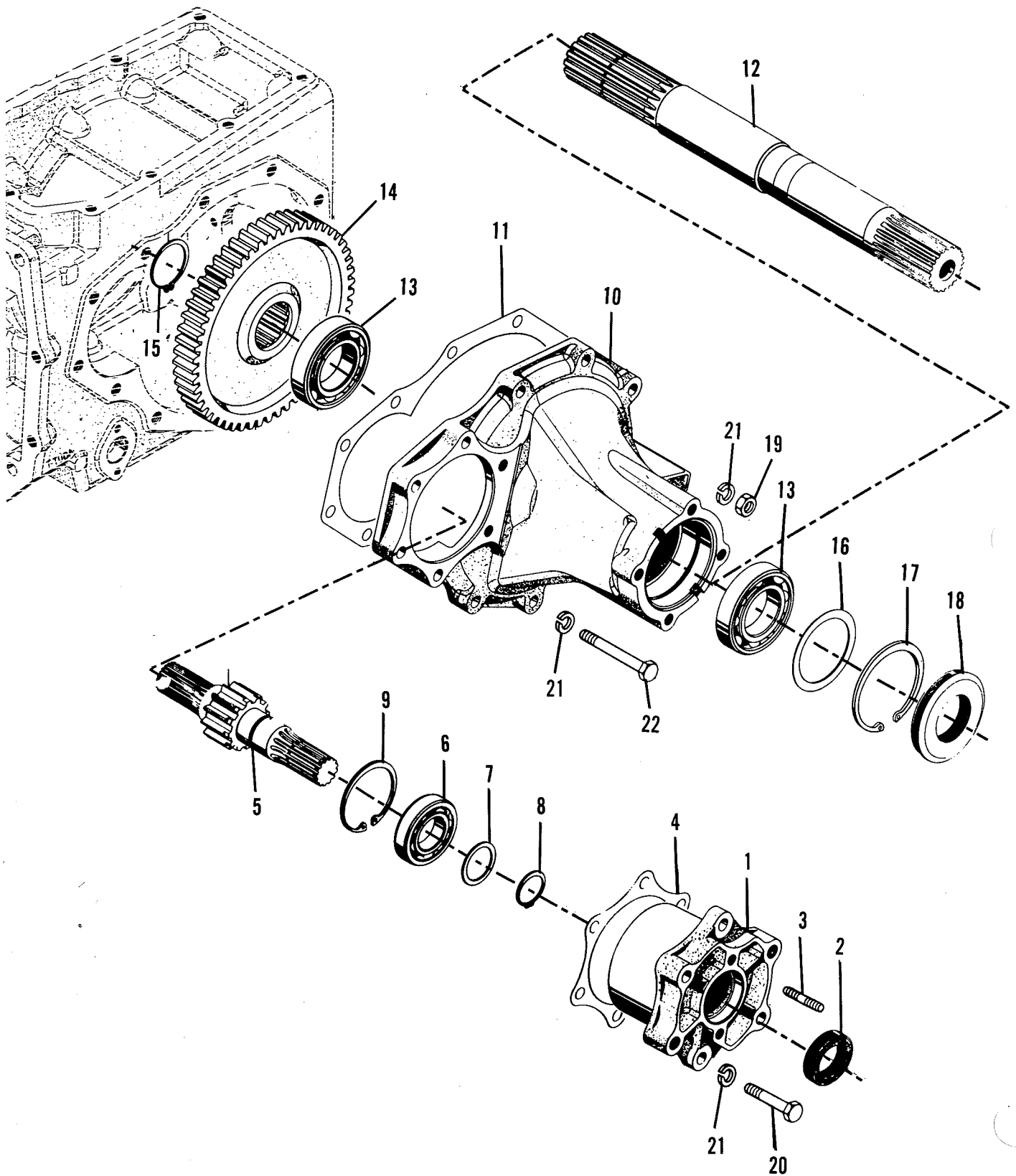
**DIFFERENTIAL**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098366	1	HOUSING
2	2098365	2	GEAR, side
3	2098255	2	WASHER, thrust
4	2098364	2	GEAR, pinion
5	2098108	2	WASHER, pinion
6	2098016	1	SHAFT, pinion
7	2097612	1	PIN, m6 x 50 lock
8	2097616	1	DIFFERENTIAL SUB. ASY. (Incl. Items 1 thru 7)
9	2098001	1	GEAR KIT, (Ring gear & drive pinion shaft)
10	2098002	8	SCREW, lock - ring gear
11	2098008	4	WASHER, lock
12	2098019	2	BEARING, tapered roller

**5020 TRACTOR**  
DRIVE TRAIN**DIFFERENTIAL & FINAL DRIVE**  
AXLE - R.H.

DIFFERENTIAL & FINAL DRIVE  
AXLE - R.H.

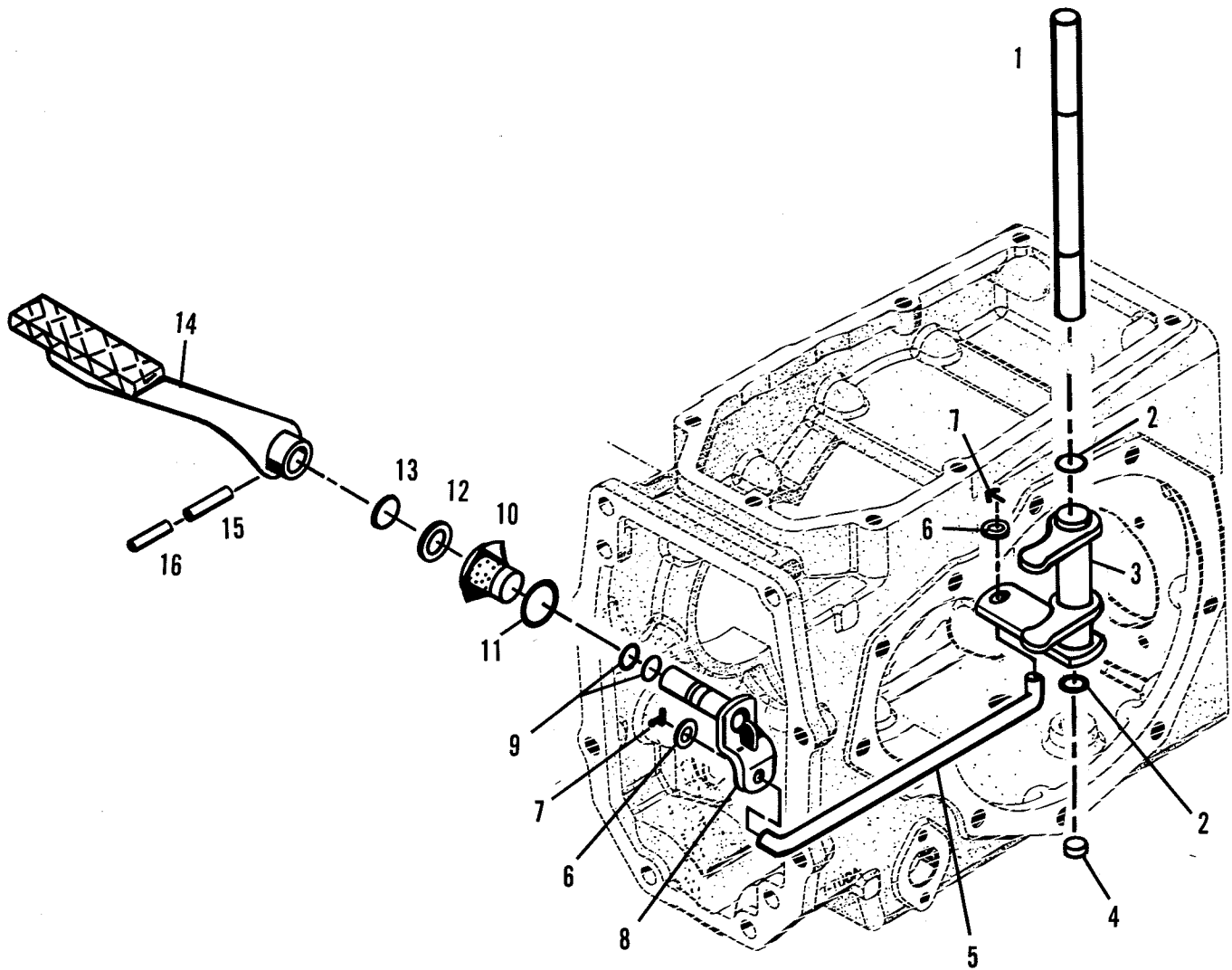
ITEM	NUMBER	QTY.	DESCRIPTION
1	2098047	1	HOUSING ASY., R.H., axle pinion (Incl. Items 2 & 3)
2	2098020	1	SEAL, oil
3	2098027	2	STUD, m10 x 18
4	2098025	*	SHIM (0.1)
	2098005	*	SHIM (0.15)
	2098006	*	SHIM (0.2)
	2098007	*	SHIM (0.3)
	2097943	*	SHIM (0.5)
			(Select )
5	2098048	1	SHAFT, R.H., axle pinion
6	2098018	1	BEARING, ball (One side sealed)
7	2097919	1	WASHER, thrust
8	934010	1	RING, m35, snap - external
9	934012	1	RING, m72, snap - internal
10	2098021	1	SLEEVE
11	2098022	1	GASKET
12	2098030	1	AXLE, final drive
13	2098046	2	BEARING, ball
14	2098031	1	GEAR, final drive
15	934011	1	RING, m50, snap - external
16	934013	1	RING, m90, snap - internal
17	2098023	1	SEAL ASY., oil
18	934030	1	NUT, m12
19	2098009	2	COUPLING, differential lock
20	2098049	2	WASHER, thrust
21	2098010	1	SPRING, differential lock
22	2098026	2	SCREW, m12 x 65
23	934042	9	LOCKWASHER, m12
24	934018	6	CAPSCREW, m12 x 45

DIFFERENTIAL & FINAL DRIVE  
AXLE - L.H.



DIFFERENTIAL & FINAL DRIVE  
AXLE - L.H.

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098024	1	HOUSING ASY., L.H., axle pinion (Incl. Items 2 & 3)
2	2098020	1	SEAL, oil
3	2098027	2	STUD, m10 x 18
4	2098025	*	SHIM (0.1)
	2098005	*	SHIM (0.15)
	2098006	*	SHIM (0.2)
	2098007	*	SHIM (0.3)
	2097943	*	SHIM (0.5)
			(Select One)
5	2098029	1	SHAFT, L.H., axle pinion
6	2098018	1	BEARING, ball (One side sealed)
7	2097919	1	WASHER, thrust
8	934010	1	RING, m35, snap - external
9	934012	1	RING, m72, snap - internal
10	2098021	1	SLEEVE
11	2098022	1	GASKET
12	2098030	1	AXLE, final drive
13	2098046	2	BEARING, ball
14	2098031	1	GEAR, final drive
15	934011	1	RING, m50, snap - external
16	2098044	*	WASHER (0.4)
	2097560	*	WASHER (0.6)
			(Select One)
17	934013	1	RING, m90, snap - internal
18	2098023	1	SEAL ASY., oil
19	934030	1	NUT, m12
20	2098026	2	SCREW, m12 x 65
21	934042	9	LOCKWASHER, m12
22	934018	6	CAPSCREW, m12 x 45

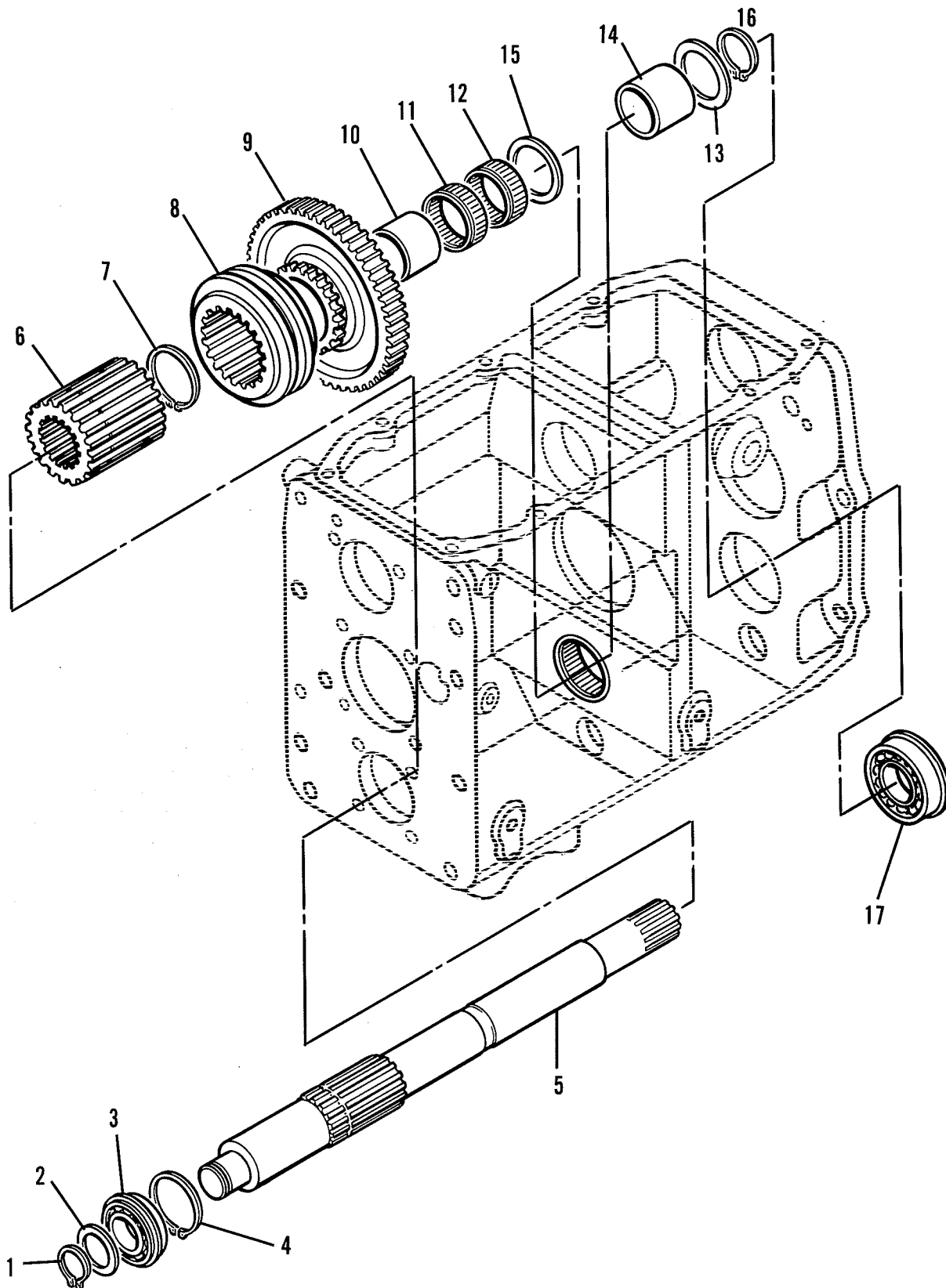
DIFFERENTIAL  
LOCK CONTROL

**5020 TRACTOR**  
DRIVE TRAIN

**97**

**DIFFERENTIAL**  
LOCK CONTROL

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097991	1	SHAFT, differential lock
2	934111	2	RING, m18, snap - external
3	2097995	1	LEVER, shift
4	2098013	1	PLUG
5	2097992	1	ROD, shift
6	912007	2	WASHER
7	918448	2	PIN, cotter
8	2097996	1	LEVER, control
9	2097998	2	O-RING
10	2097993	1	GUIDE, control lever
11	2097994	1	O-RING
12	2097911	1	WASHER, thrust
13	934007	1	RING, m20, snap - external
14	2097997	1	PEDAL
15	934037	1	PIN, m8 x 32, lock
16	934075	1	PIN, m5 x 32, lock

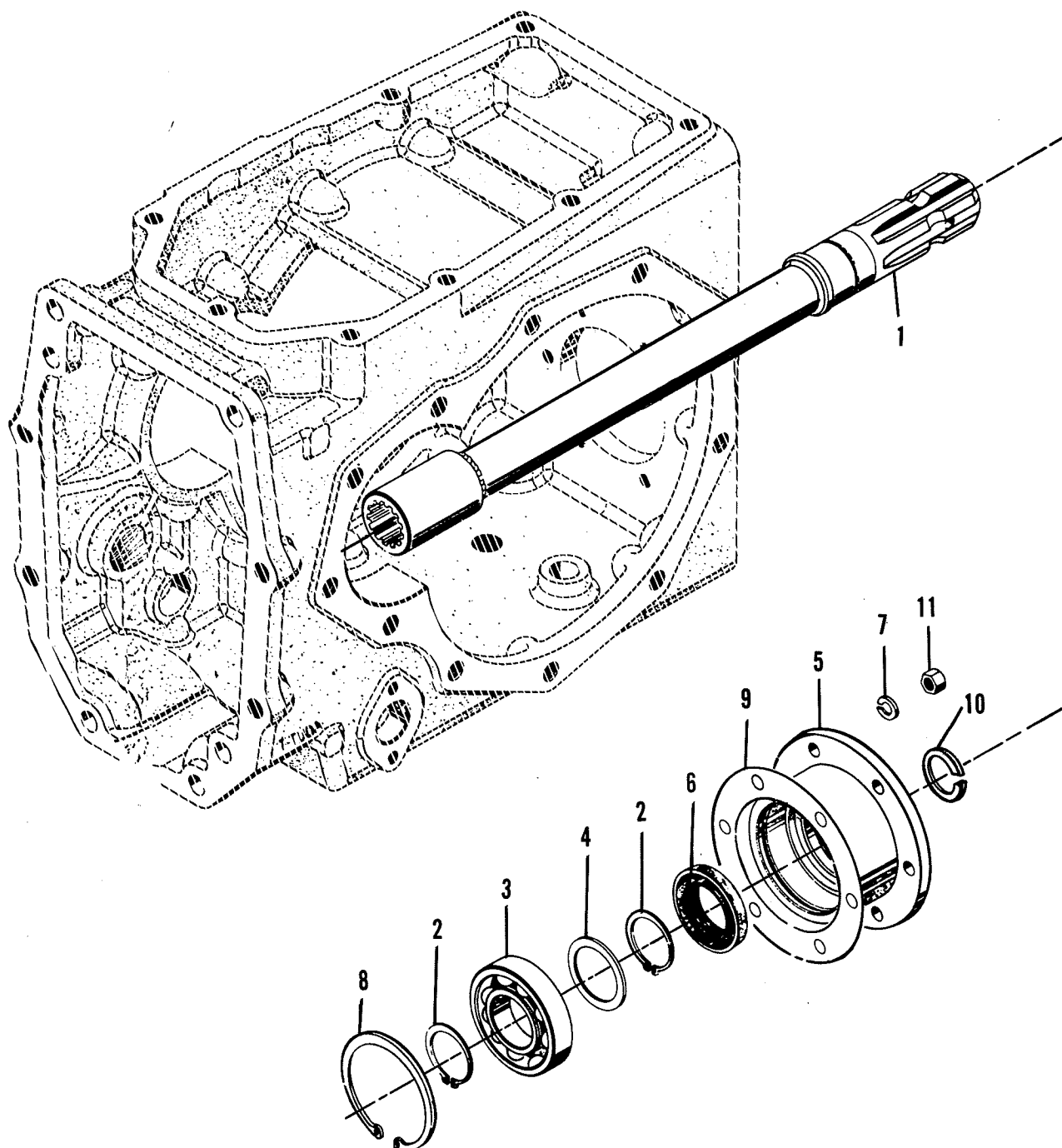
**5020 TRACTOR**  
DRIVE TRAIN**P.T.O.**  
SHAFT & GEAR

**5020 TRACTOR**  
DRIVE TRAIN

**99**

**P.T.O.**  
SHAFT & GEAR

ITEM	NUMBER	QTY.	DESCRIPTION
1	934008	1	RING, snap - external
2	2097936	1	WASHER, thrust
3	2097937	1	BEARING ASY. (Incl. SNAP RING)
4	934112	1	RING, snap - external
5	2097983	1	SHAFT, P.T.O.
6	2097959	1	HUB, P.T.O. sleeve
7	934113	1	RING, m65, snap - external
8	2097551	1	SLEEVE, P.T.O.
9	2097552	1	GEAR, P.T.O. driven
10	2097964	1	RING, inner - shell type needle bearing
11	2097963	1	BEARING, needle
12	2097962	1	BEARING, needle
13	2097969	1	WASHER, thrust
14	2097960	1	RING, inner - shell type needle bearing
15	2097970	*	WASHER, thrust (3.0)
	2097513	*	WASHER, thrust (3.3)
	2097515	*	WASHER, thrust (3.6)
	2098258	*	WASHER, thrust (3.9)
			} (Select )
16	934010	1	RING, m35, snap - external
17	2097553	1	BEARING ASY. (Incl. SNAP RING)

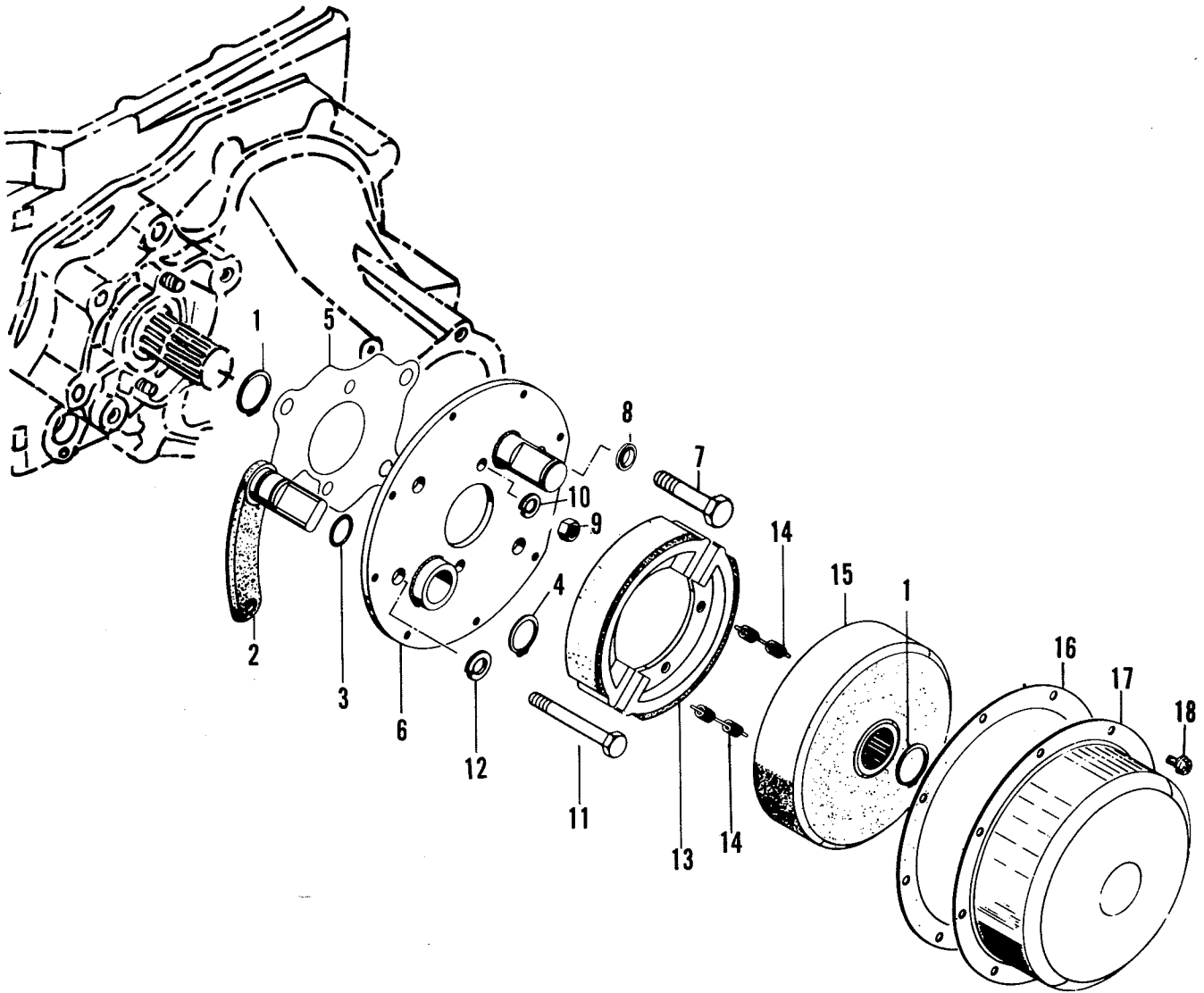
P.T.O.  
EXTENSION SHAFT

**5020 TRACTOR**  
DRIVE TRAIN

**101**

**P.T.O.**  
EXTENSION SHAFT

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098011	1	SHAFT, P.T.O. extension
2	934010	2	RING, m35, snap - external
3	2098570	1	BEARING, ball
4	2097919	1	WASHER, thrust
5	2097989	1	RETAINER ASY., bearing (Incl. Item 6)
6	2097990	1	SEAL, oil
7	934042	6	LOCKWASHER
8	934012	1	RING, m72, snap - internal
9	2097965	1	GASKET
10	2098315	1	RING, stop
11	934028	6	NUT, m8

BRAKE  
LEFT HAND

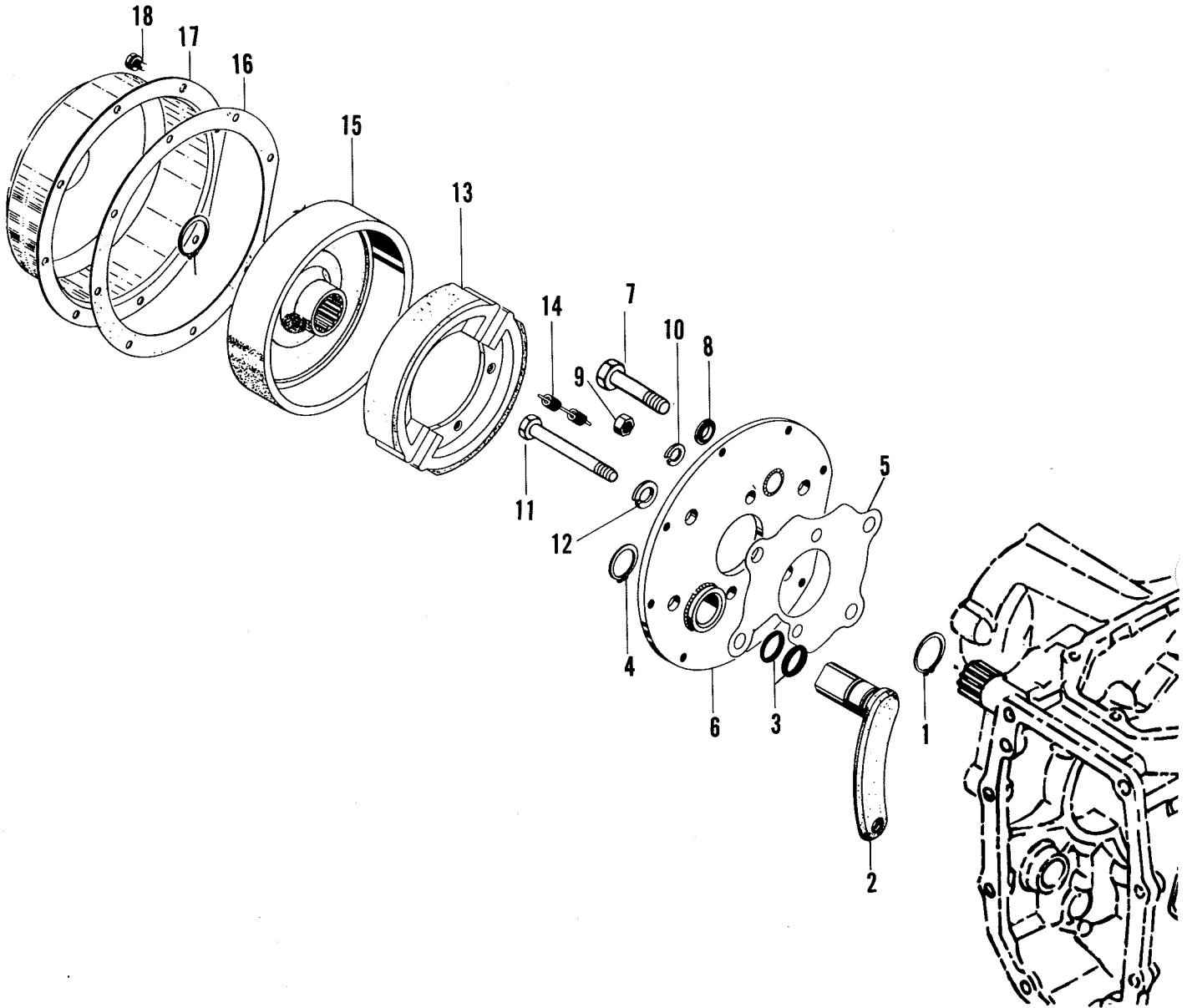


5020 TRACTOR  
BRAKE

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BRAKE  
LEFT HAND

ITEM	NUMBER	QTY.	DESCRIPTION
1	934009	2	RING, m30, snap - external
2	2098037	1	CAM, L.H., brake
3	2098040	2	O-RING
4	934008	1	RING, m25, snap - external
5	2098033	1	GASKET
6	2098042	1	PLATE, L.H., brake
7	2098035	2	SCREW, m12 x 55
8	2098043	2	WASHER, m12, seal
9	934029	2	NUT, m10
10	934041	2	LOCKWASHER, m10
11	934019	2	CAPSCREW, m12 x 85
12	934042	2	LOCKWASHER, m12
13	2098041	2	SHOE ASY., brake
14	2098039	2	SPRING, return
15	2098036	1	DRUM, brake
16	2098032	1	GASKET
17	2098038	1	COVER, brake
18	2098034	1	SCREW, m6 x 12, w/lockwasher

**5020 TRACTOR**  
BRAKE**BRAKE**  
RIGHT HAND

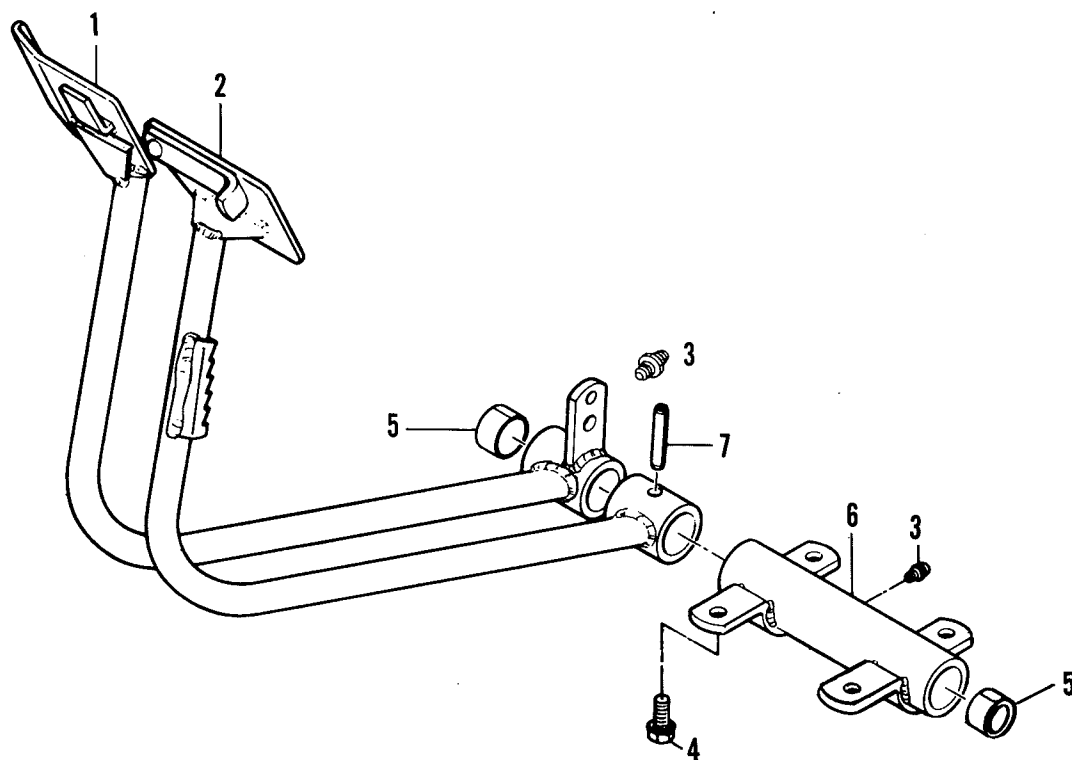
5020 TRACTOR  
BRAKE

105

BRAKE  
RIGHT HAND

ITEM	NUMBER	QTY.	DESCRIPTION
1	934009	2	RING, m30, snap - external
2	2098050	1	CAM, R.H., brake
3	2098040	2	O-RING
4	934008	1	RING, m25, snap - external
5	2098033	1	GASKET
6	2098051	1	PLATE, R.H., brake
7	2098035	2	SCREW, m12 x 55
8	2098043	2	WASHER, m12, seal
9	934029	2	NUT, m10
10	934041	2	LOCKWASHER, m10
11	934019	2	CAPSCREW, m12 x 85
12	934042	2	LOCKWASHER, m12
13	2098041	2	SHOE ASY., brake
14	2098039	2	SPRING, return
15	2098036	1	DRUM, brake
16	2098032	1	GASKET
17	2098038	1	COVER, brake
18	2098034	8	SCREW, m6 x 12, w/lockwasher

## CONTROLS

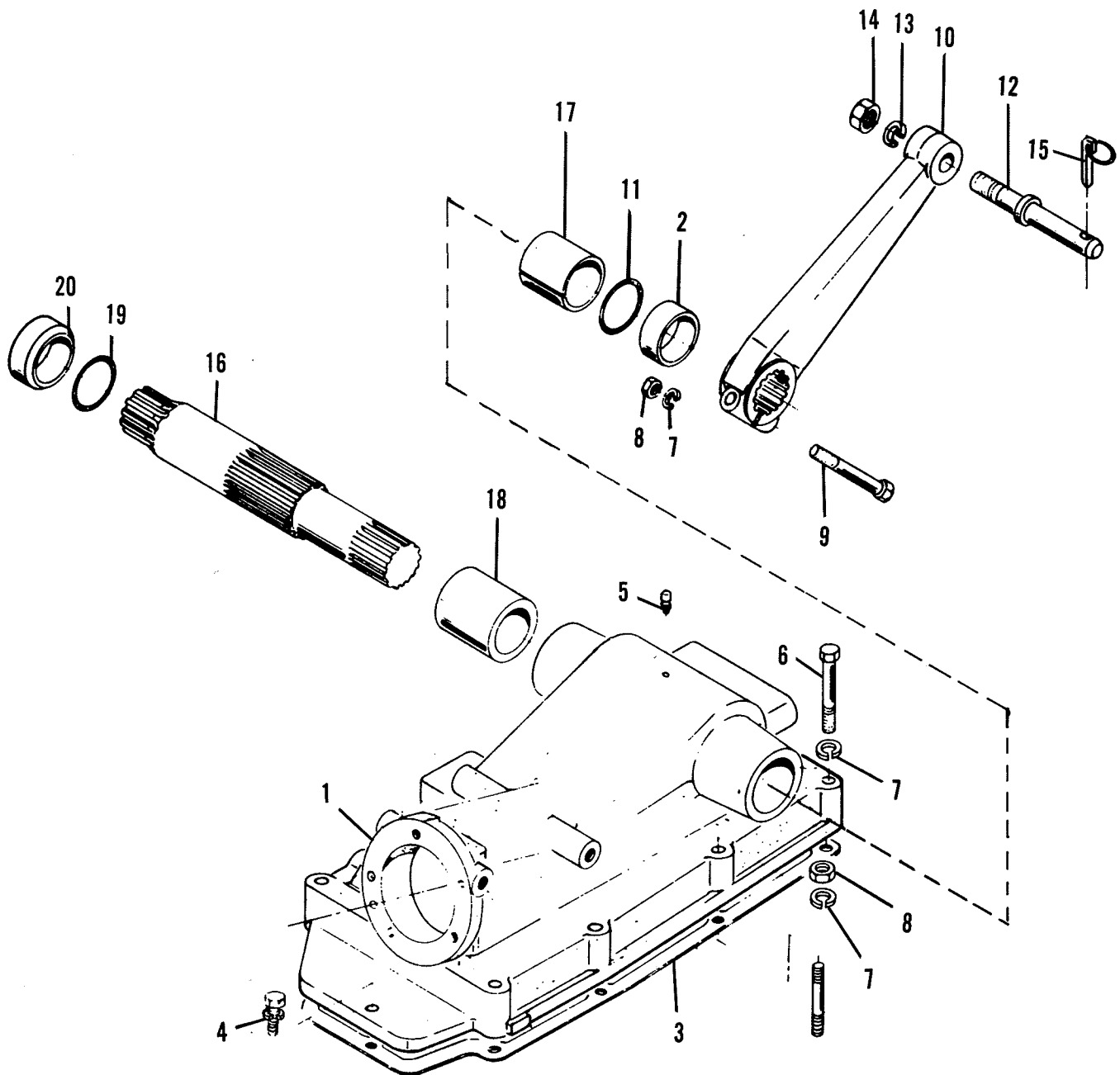


**5020 TRACTOR**  
BRAKE

**107**

**CONTROLS**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098114	1	PEDAL, right brake
2	2098115	1	PEDAL, left brake
3	2098236	2	FITTING, lube
4	934045	4	CAPSCREW, m8 x 20
5	2098116	4	BUSHING
6	2098117	1	SUPPORT
7	934003	1	PIN, m8 x 40 roll

**5020 TRACTOR**  
HITCH & LIFT**LIFT SHAFT & HOUSING**

5020 TRACTOR  
HITCH & LIFT

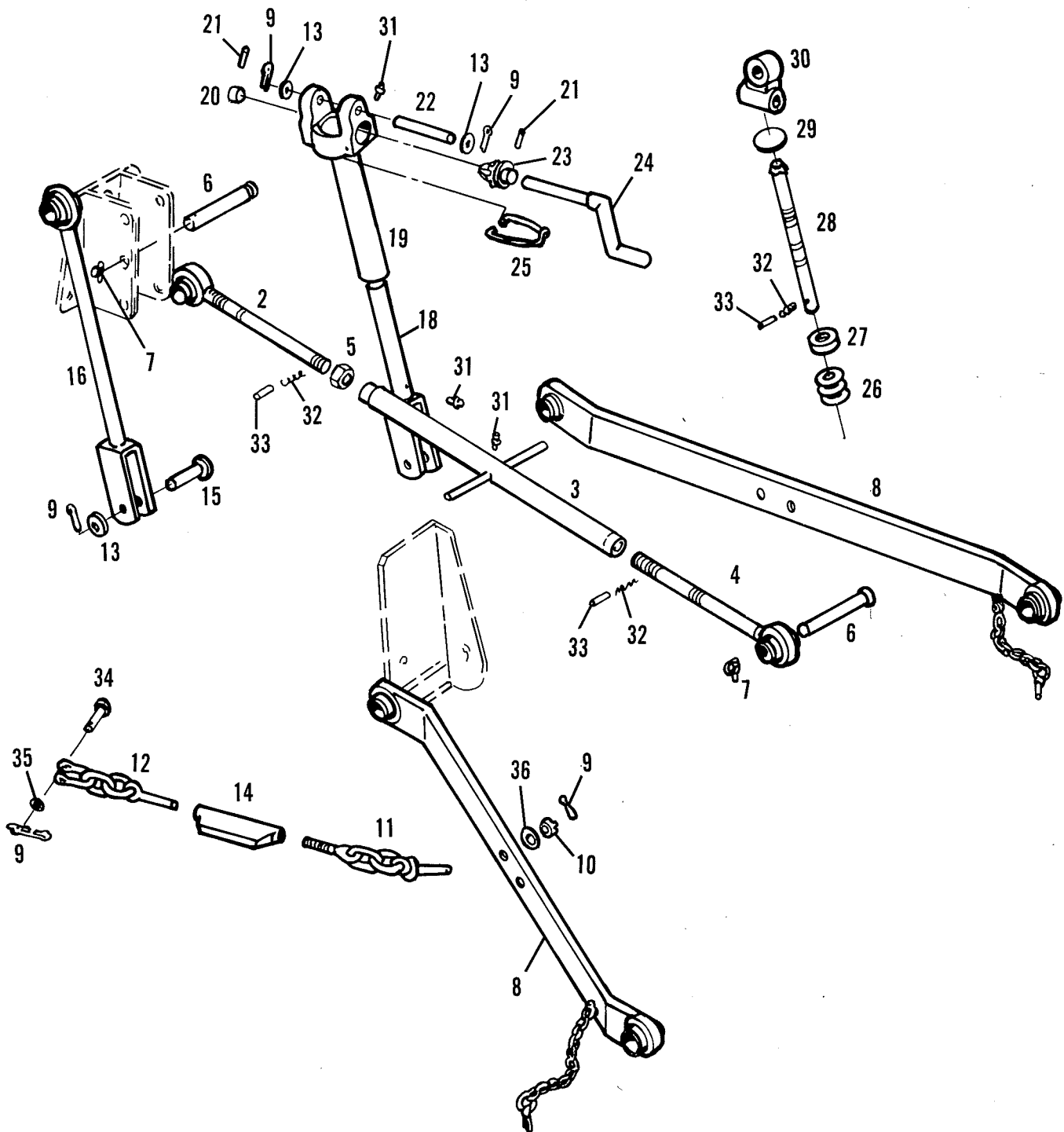
109

LIFT SHAFT & HOUSING

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098149	1	HOUSING, lift
2	2098156	1	COLLAR (B)
3	2098167	1	GASKET, housing
4	934034	1	CAPSCREW
5	2098180	1	BREATHER
6	934016	5	CAPSCREW, m10 x 55
7	934041	9	LOCKWASHER, m10
8	934029	4	NUT, m10
9	2098168	2	CAPSCREW
10	2098158	2	ARM
11	2098155	1	O-RING
12	2098159	2	PIN
13	934043	2	LOCKWASHER, m16
14	934031	2	NUT, m16
15	2098045	2	PIN, quick
16	2098151	1	SHAFT, lift arm
17	2098154	1	BUSHING
18	2098150	1	BUSHING
19	2098152	1	O-RING
20	2098153	1	COLLAR (A)

5020 TRACTOR  
HITCH & LIFT

## 3 POINT HITCH





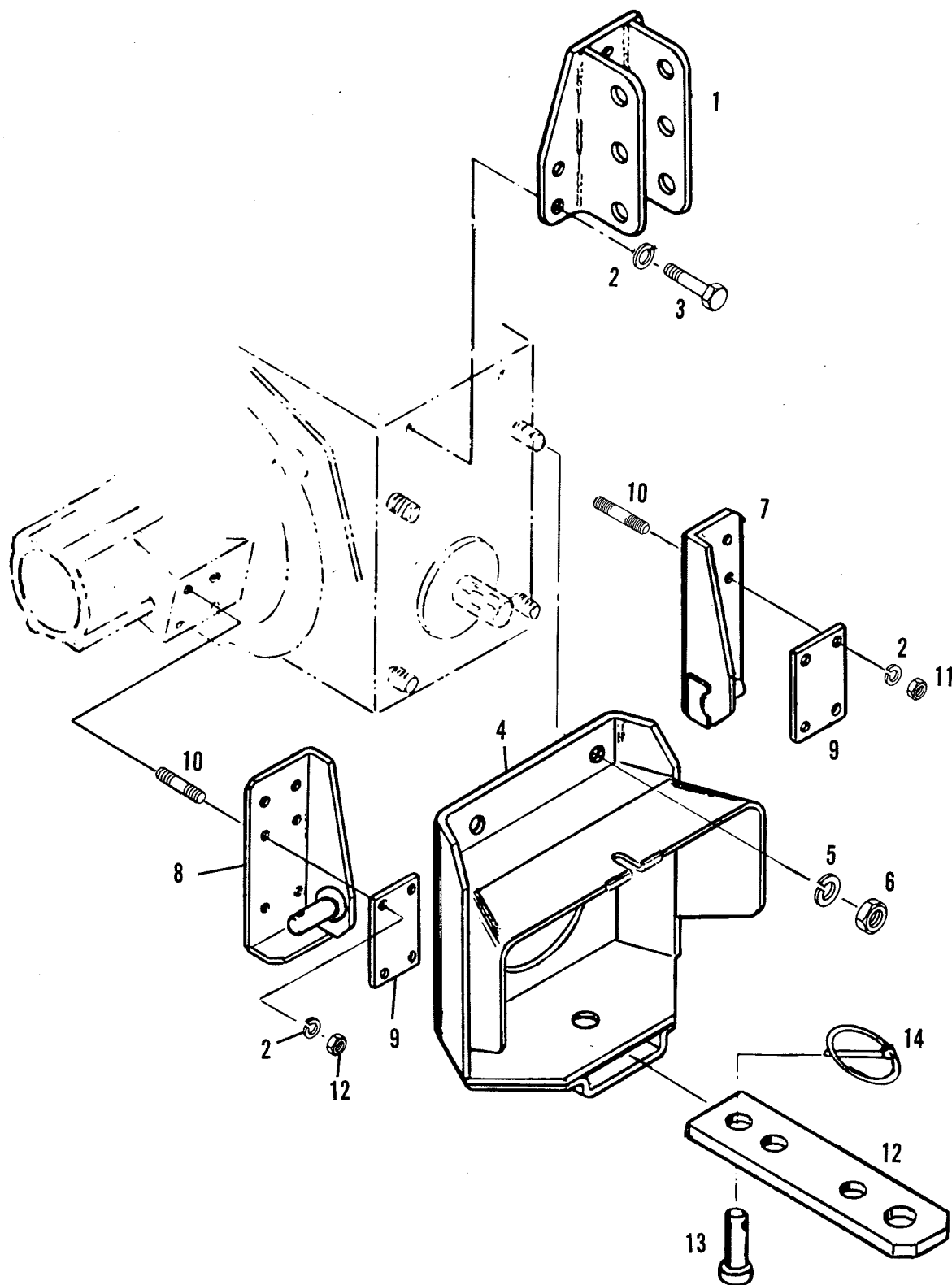
**5020 TRACTOR**  
HITCH & LIFT

111

**3 POINT HITCH**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097813	1	LINK ASY., upper (Incl. Item 2 thru 5, 32 & 33)
2	2097828	1	SOCKET
3	2097831	1	TUBE, beaming screw
4	2097833	1	SOCKET
5	2097859	1	NUT
6	2097978	2	PIN
7	2098045	2	PIN, quick
8	2097918	2	LINK, draft, Cat. 1
9	920117	8	PIN, cotter
10	934032	2	NUT
11	2098190	2	CHAIN, check
12	2097985	2	CHAIN, check
13	924873	6	WASHER
14	2098012	2	TURNBUCKLE
15	2097973	2	PIN
16	2097999	1	ROD, lift, L.H.
17	2098017	1	ROD ASY., R.H. (Incl. Items 9, 13, 18 thru 33)
18	2097982	1	CLEVIS
19	2097625	1	ROD, lift, R.H.
20	2098061	1	COLLAR
21	934057	2	PIN, roll
22	2097575	1	PIN
23	2098028	1	GEAR
24	2098224	1	CRANK
25	2097648	1	PIN, crank
26	2098582	—	SHIM 0.2
	2098583	—	SHIM 0.3
	2098584	—	SHIM 0.5
27	2097686	1	BEARING
28	2097967	1	SHAFT
29	2097968	1	PLUG
30	2097971	1	TRUNNION
31	2097972	3	FITTING, lube
32	2097974	3	SPRING
33	2097976	3	PIN
34	2097979	2	PIN
35	924360	2	WASHER, m12
36	934043	2	LOCKWASHER, m16

## DRAWBAR



5020 TRACTOR  
HITCH & LIFT

113

DRAWBAR

ITEM	NUMBER	QTY.	DESCRIPTION
1	2097683	1	MOUNTING, upper link
2	934042	13	LOCKWASHER, m12
3	2098262	5	CAPSCREW
4	2098263	1	GUARD, P.T.O.
5	934043	4	LOCKWASHER, m16
6	934031	4	NUT' m16
7	2098264	1	MOUNTING, R.H., lower link
8	2098265	1	MOUNTING, L.H., lower link
9	2098266	2	SPACER
10	2098261	8	STUD
11	2097705	8	NUT
12	2097713	1	DRAWBAR
13	2098304	1	PIN, drawbar
14	244066	1	PIN, quick



5020 TRACTOR  
AXLES, STEERING & WHEELS

115

STEERING

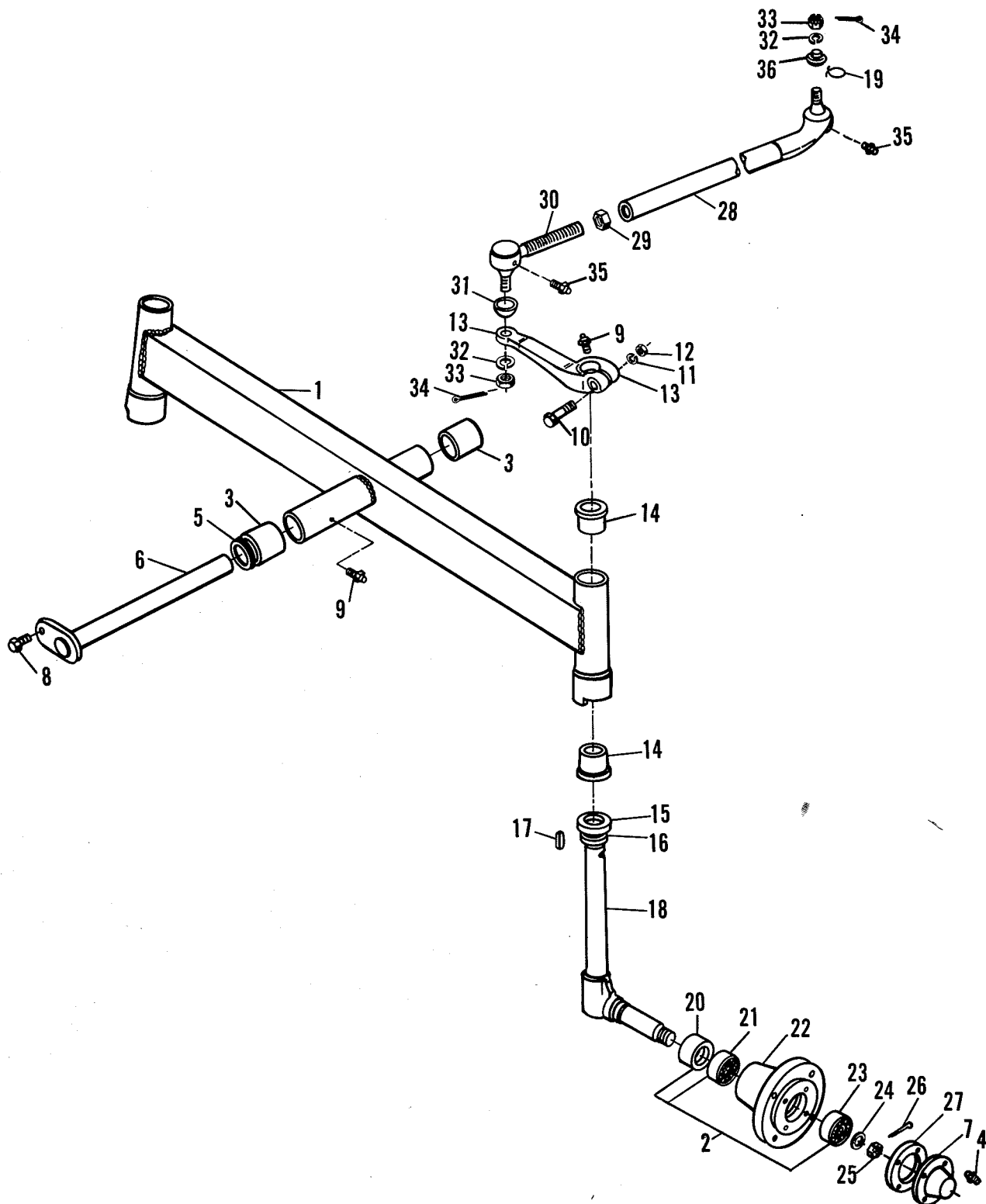
ITEM	NUMBER	QTY.	DESCRIPTION
1	2098074	1	CAP, steering wheel
2	934030	1	NUT, m12
3	934042	1	LOCKWASHER, m12
4	924360	1	WASHER
5	2098075	1	WHEEL, steering
6	2098076	2	BUSHING, steering post
7	2098077	1	SHAFT, steering
8	2098079	1	UNIVERSAL JOINT ASY. (Incl. Items 8, 9 & 10)
9	2098078	2	PIN
10	2098080	2	RING
11	2098081	4	RIVET, drive
12	934046	7	CAPSCREW
13	2098082	1	BOX, joint
14	920117	1	PIN, cotter
15	2098083	1	CLAMP
16	2098084	1	GASKET
17	2098085	1	SEAL, oil
18	2098086	1	NUT
19	2098087	1	BEARING
20	2098088	1	WASHER
21	934007	1	RING, m20, snap
22	2098089	1	GEAR, steering
23	2098090	1	PINION, steering
24	2098096	1	SHAFT
25	2098091	1	BEARING
26	2098092	1	BEARING
27	2098349	1	SEAL, w/two rings
28	934032	1	NUT, m16
29	934043	1	LOCKWASHER, m16
30	2098098	1	ARM, pitman
31	2098572	1	KEY
32	934008	1	RING, m25, snap

# 5020 TRACTOR

## AXLES, STEERING & WHEELS

### AXLE

### FRONT

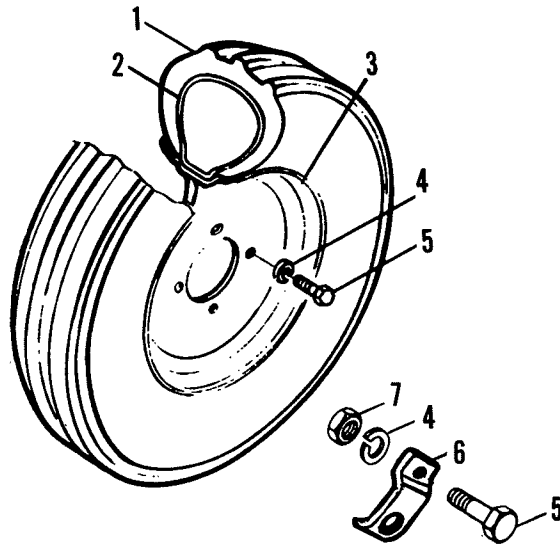
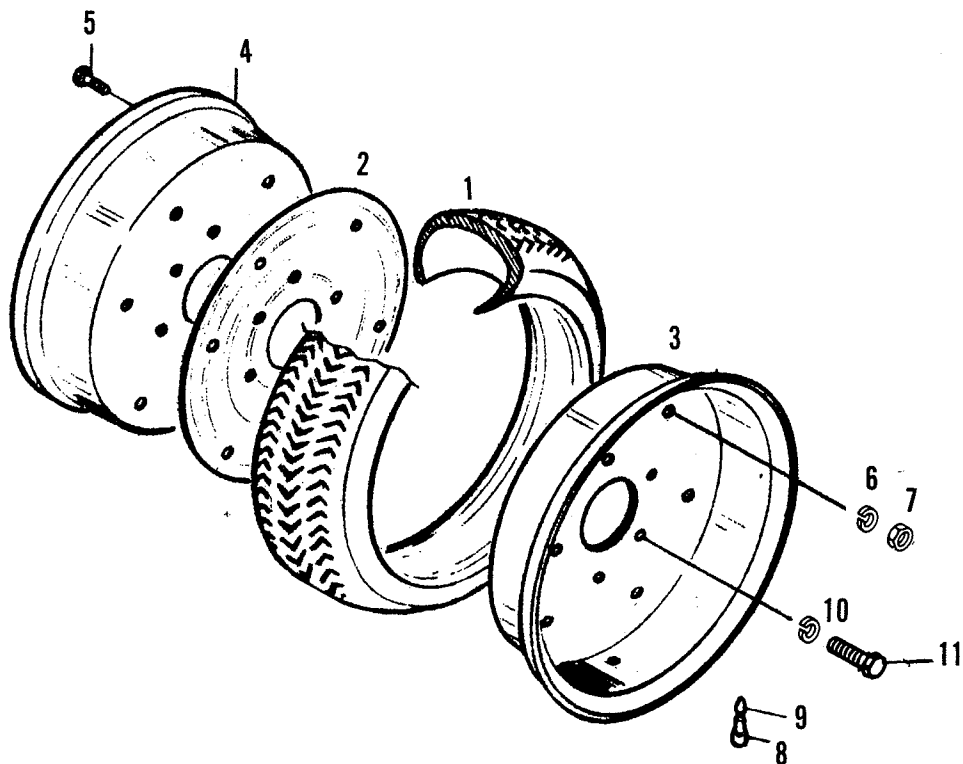


**5020 TRACTOR**  
AXLES, STEERING & WHEELS

**117**

**AXLE**  
FRONT

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098227	1	AXLE, front
2	2098226	1	BEARING KIT, wheel (Incl. Items 20, 21, 23)
3	2098235	2	BUSHING
4	934115	8	SCREW, m6 x 12
5	2098622	—	WASHER 1.6
	2098580	—	WASHER 2.3
6	2098238	1	PIN, pivot
7	2098249	2	CAP
8	934048	1	CAPSCREW, m10 x 20
9	2073352	3	FITTING, lube
10	2098225	2	CAPSCREW
11	934042	2	LOCKWASHER, m12
12	934030	2	NUT, m12
13	2098240	2	ARM, steering
14	2098241	4	BUSHING
15	2098242	2	BEARING
16	2098243	2	SEAL
17	2098097	2	KEY
18	2098244	1	SPINDLE, L.H.
	2098245	1	SPINDLE, R.H.
19	2097669	2	WIRE
20	2098251	2	SEAL, oil
21	2098252	2	BEARING
22	2098247	2	HUB
	2098581	2	HUB (For Turf Wheel)
23	2098356	2	BEARING
24	2098253	2	WASHER
25	934051	2	NUT
26	920117	2	PIN, cotter
27	2098248	2	GASKET, cap
28	2098228	1	ROD, L.H., tie
	2098229	1	ROD, R.H., tie
29	2098230	1	NUT, R.H. thread
	2098574	1	NUT, L.H. thread
30	2098232	1	END, tie rod
	2098233	1	END, tie rod
31	2098234	2	COVER, dust
32	934042	4	LOCKWASHER
33	2098239	4	NUT, m12
34	918448	4	PIN, cotter
35	2073352	4	FITTING, lube
36	2097691	2	COVER, dust

WHEEL  
FRONTWHEEL  
FRONT — TURF



**5020 TRACTOR**  
AXLES, STEERING & WHEELS

**119**

**WHEEL**  
FRONT

ITEM	NUMBER	QTY.	DESCRIPTION
1	-----	2	TIRE (Obtain locally)
2	-----	2	TUBE (Obtain locally)
3	2098250	2	WHEEL
4	934042	10	LOCKWASHER, m12
5	2098567	10	CAPSCREW
6	2097653	2	PROTECTOR, valve
7	934030	2	NUT, m12

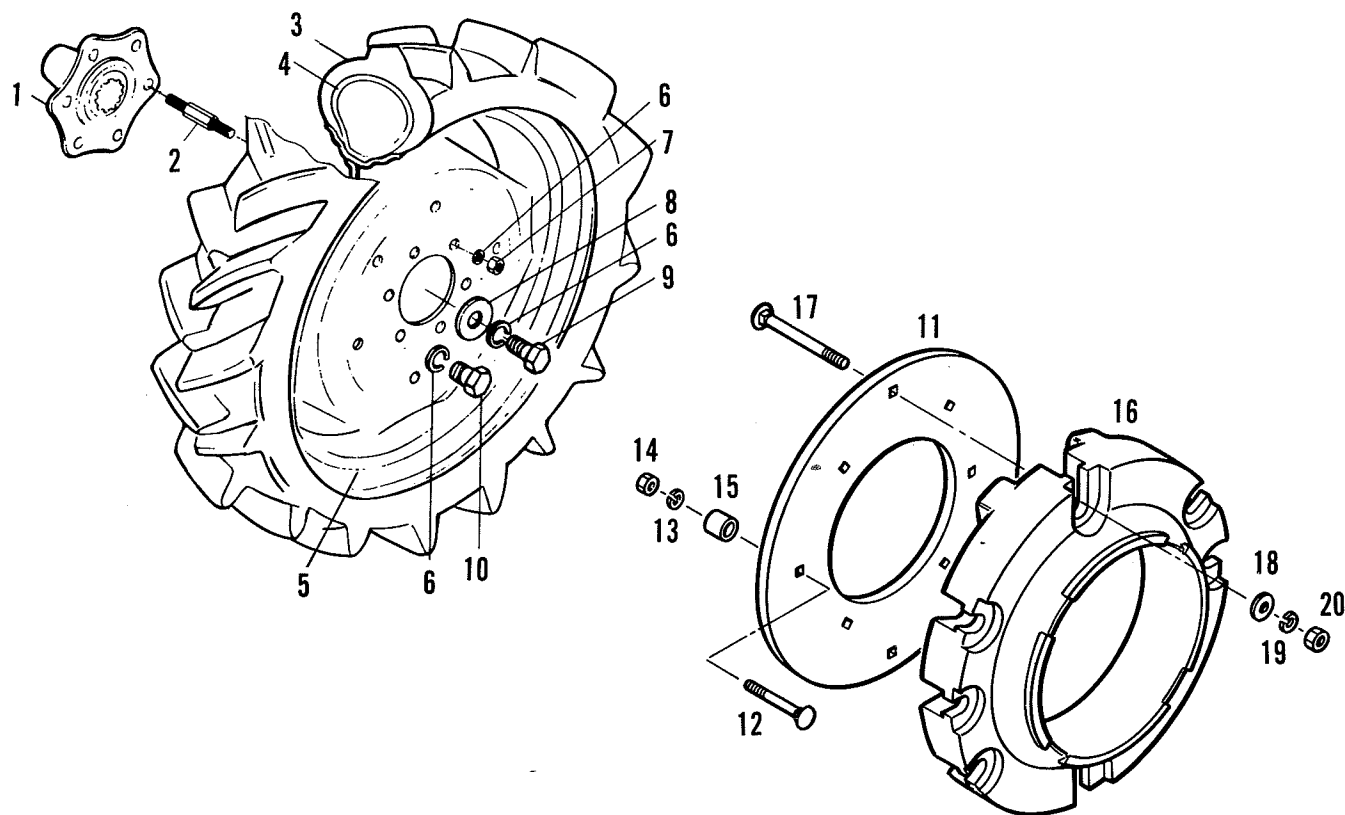
**WHEEL**  
FRONT -TURF

ITEM	NUMBER	QTY.	DESCRIPTION
1	-----	2	TIRE (Obtain Locally)
2	2098600	2	GASKET, wheel
3	2098601	2	WHEEL (A)
4	2098602	2	WHEEL (B)
5	934121	12	BOLT
6	934041	12	LOCKWASHER, m10
7	934029	12	NUT, m10
8	-----	2	VALVE ASY., (Obtain Locally)
9	-----	2	CUP VALVE, (Obtain Locally)
10	934042	12	LOCKWASHER, m12
11	2098262	12	CAPSCREW

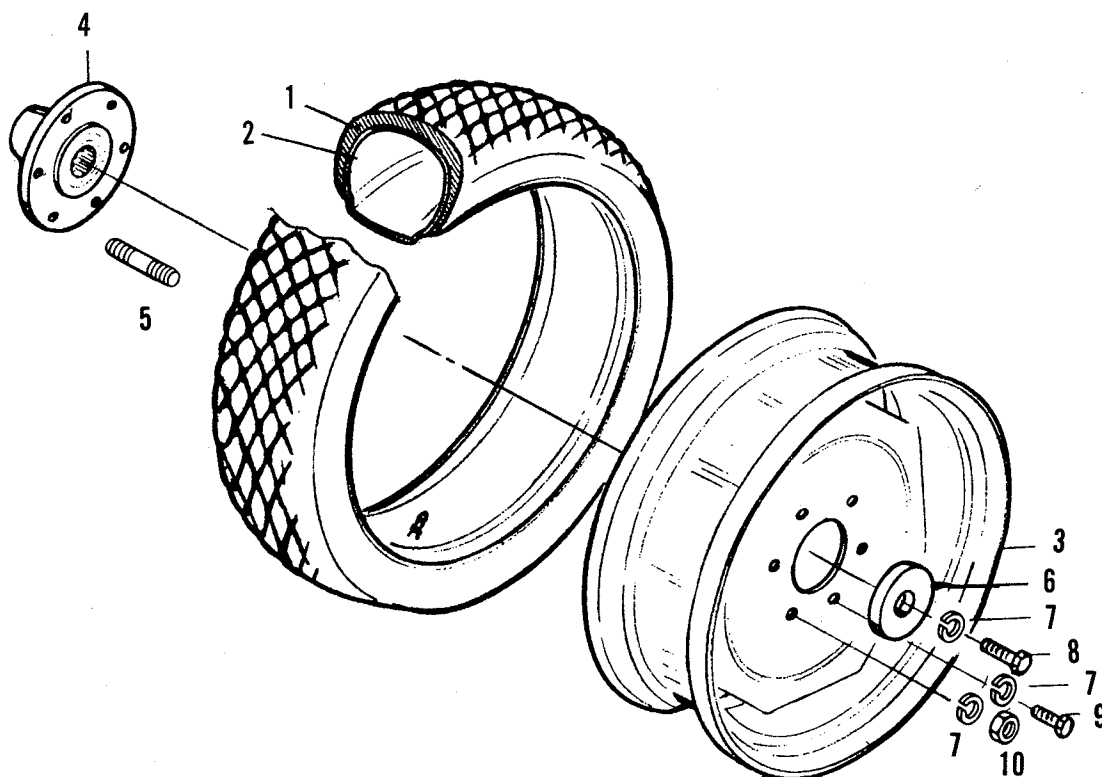
## 5020 TRACTOR

### AXLES, STEERING & WHEELS

**WHEEL**  
**REAR**



**WHEEL**  
REAR - TURF



**5020 TRACTOR**  
AXLES, STEERING & WHEELS

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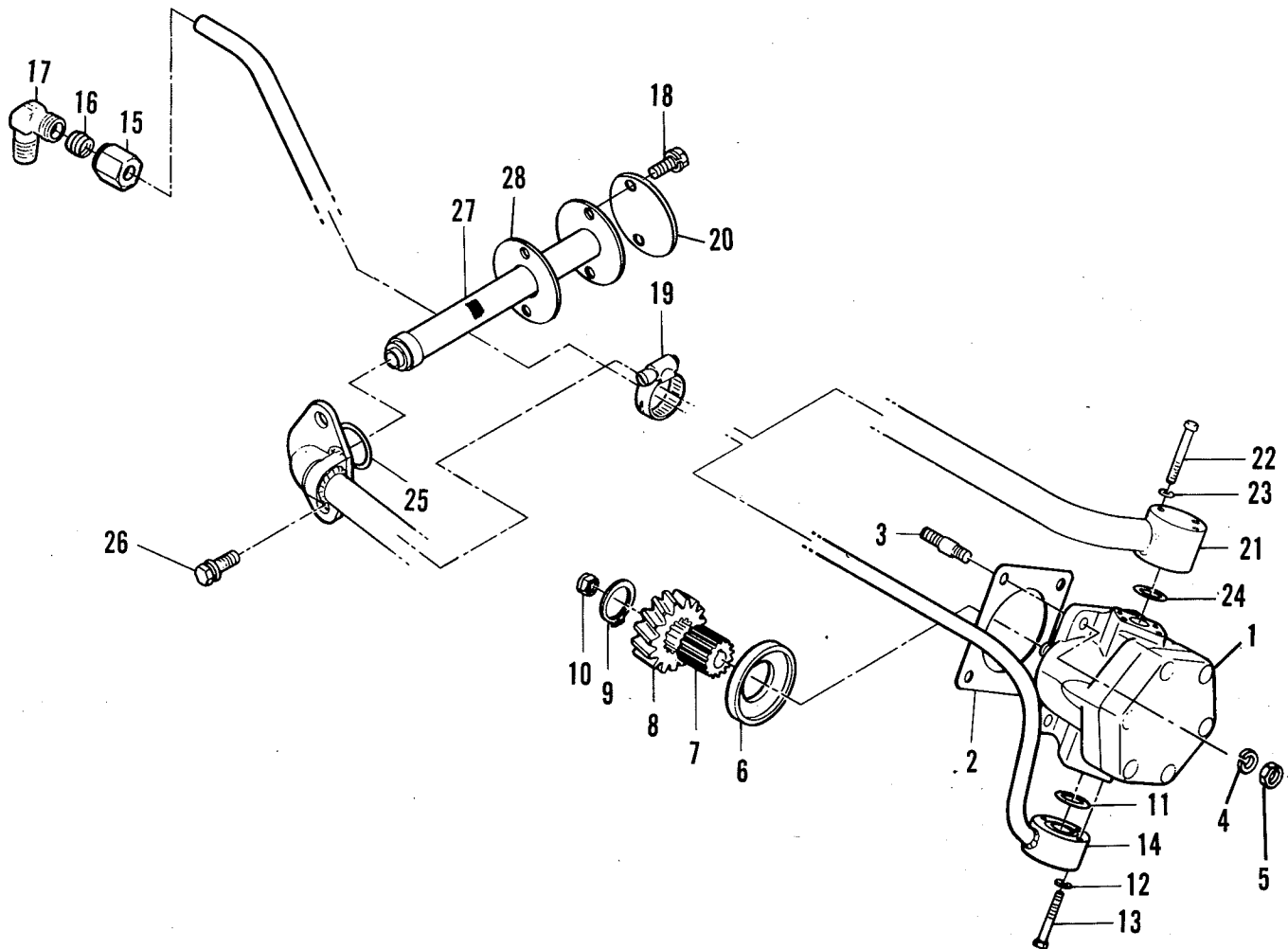
**WHEEL**  
REAR

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098254	2	HUB, rear wheel
2	934053	4	STUD
3	-----	2	TIRE (Obtain locally)
4	-----	2	TUBE (Obtain locally)
5	2098257	2	WHEEL
6	934043	14	LOCKWASHER, m16
7	934031	4	NUT, m16
8	2098260	2	PLATE, hub
9	2097602	2	CAPSCREW
10	2098014	8	CAPSCREW
11	2097052	2	ADAPTOR DISK
12	923156	6	BOLT, rd. hd., sq. nk. f.b. No. nut .625-11 x 2.75 Grade 5, plt'd.
13	917373	6	WASHER, lock, .625 plt'd.
14	918814	6	NUT, .625-11 UNC 2B plt'd.
15	2097053	6	SPACER
16	256687	2	WEIGHT, rear wheel
17	924108	4	BOLT, rd. hd., sq. nk. f.b. No. nut .75-10 x 5.00 Grade 5 plt'd.
18	918269	4	WASHER, plain, SAE, .75 pltd.
19	919332	4	WASHER, lock, .750 plt'd.
20	922686	4	NUT, .750-10 UNC-2B plt'd.

**WHEEL**  
REAR - TURF

ITEM	NUMBER	QTY.	DESCRIPTION
1	-----	2	TIRE TURF (Obtain Locally)
2	-----	2	TUBE (Obtain Locally)
3	2098603	2	WHEEL
4	2098604	2	HUB, rear turf
5	934053	2	STUD
6	2098260	2	PLATE, hub
7	934043	14	LOCKWASHER
8	2098357	2	CAPSCREW
9	2098014	8	CAPSCREW
10	934031	4	NUT

## PUMP &amp; LINES

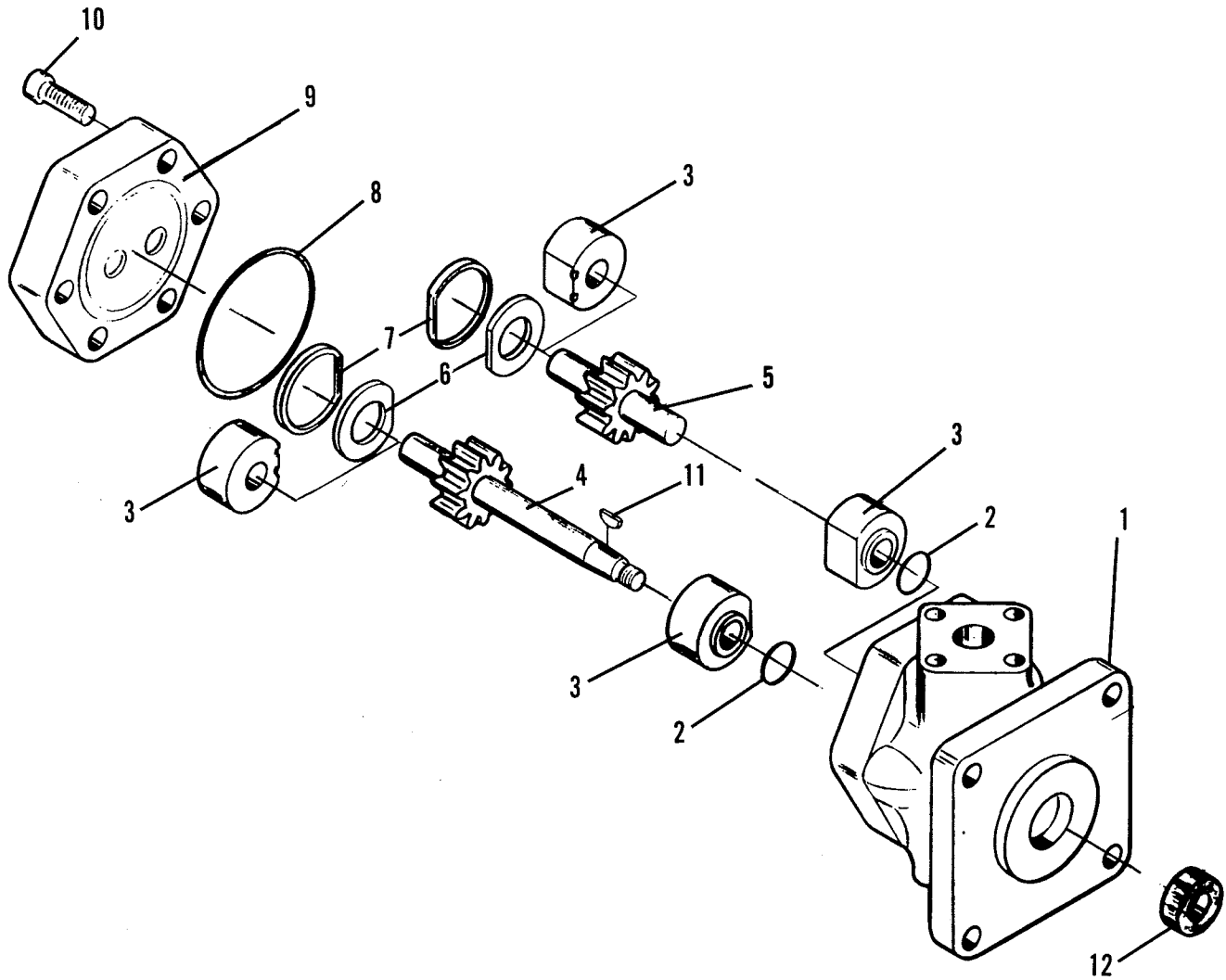


5020 TRACTOR  
HYDRAULIC SYSTEM

123

PUMP & LINES

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098141	1	PUMP, hydraulic (Refer to PUMP Group for Components)
2	2098144	1	GASKET
3	934021	4	STUD, m8 x 31
4	934040	4	LOCKWASHER, m8
5	934028	4	NUT, m8
6	2098145	1	WASHER, thrust
7	2098146	1	SHAFT, hydraulic pump drive
8	2098147	1	GEAR
9	932062	1	RING, snap
10	2098148	1	U-NUT
11	2098140	1	O-RING
12	934039	2	LOCKWASHER, m6
13	2098143	2	CAPSCREW
14	2098142	1	TUBE ASY., delivery (Incl. Item 15 & 16)
15	2098293	1	NUT, tube
16	2098294	1	SLEEVE
17	2098131	1	ELBOW
18	934045	2	CAPSCREW, m8 x 20
19	2098353	2	CLAMP
20	2098338	1	CAP, strainer
21	2098139	1	TUBE, suction
22	2098138	3	CAPSCREW
23	934039	5	LOCKWASHER, m6
24	2098140	1	O-RING
25	2098134	1	O-RING
26	934046	2	CAPSCREW, m8 x 25
27	2098135	1	STRAINER
28	2098136	1	GASKET, strainer

PUMP  
LIFT

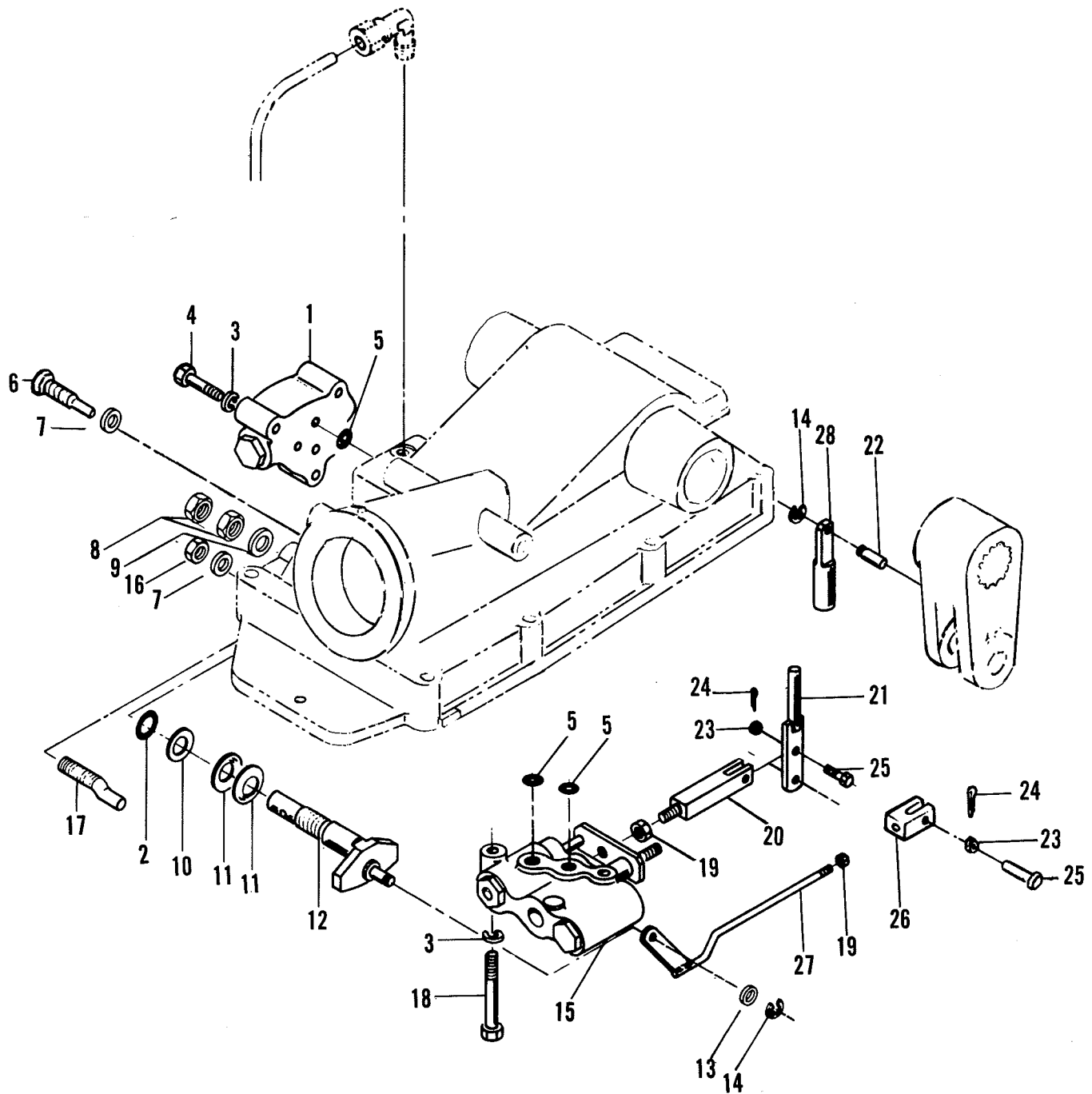
**5020 TRACTOR**  
HYDRAULIC SYSTEM

**125**

**PUMP**  
LIFT

ITEM	NUMBER	QTY.	DESCRIPTION
—	2098141	1	PUMP ASY.
	2098621	1	SEAL KIT, hydraulic
1	—	1	BODY (Not Serviced; Order 2098141 Complete PUMP ASY.)
2	2098402	2	O-RING
3	—	4	BUSHING (Not serviced; order 2098410 GEAR ASY.)
4	—	1	DRIVE SHAFT & GEAR (Not serviced; order 2098410 GEAR ASY.)
5	—	1	DRIVE GEAR (Not serviced; order 2098410 GEAR ASY.)
6	2098403	2	RING, support
7	2098404	2	RING, sealing
8	2098405	1	O-RING
9	2098406	1	COVER
10	2098407	6	CAPSCREW, sckt. hd.
11	2098408	1	KEY
12	2098409	1	SEAL, oil
—	2098410	1	GEAR ASY. (Incl. Items 3, 4, & 5)

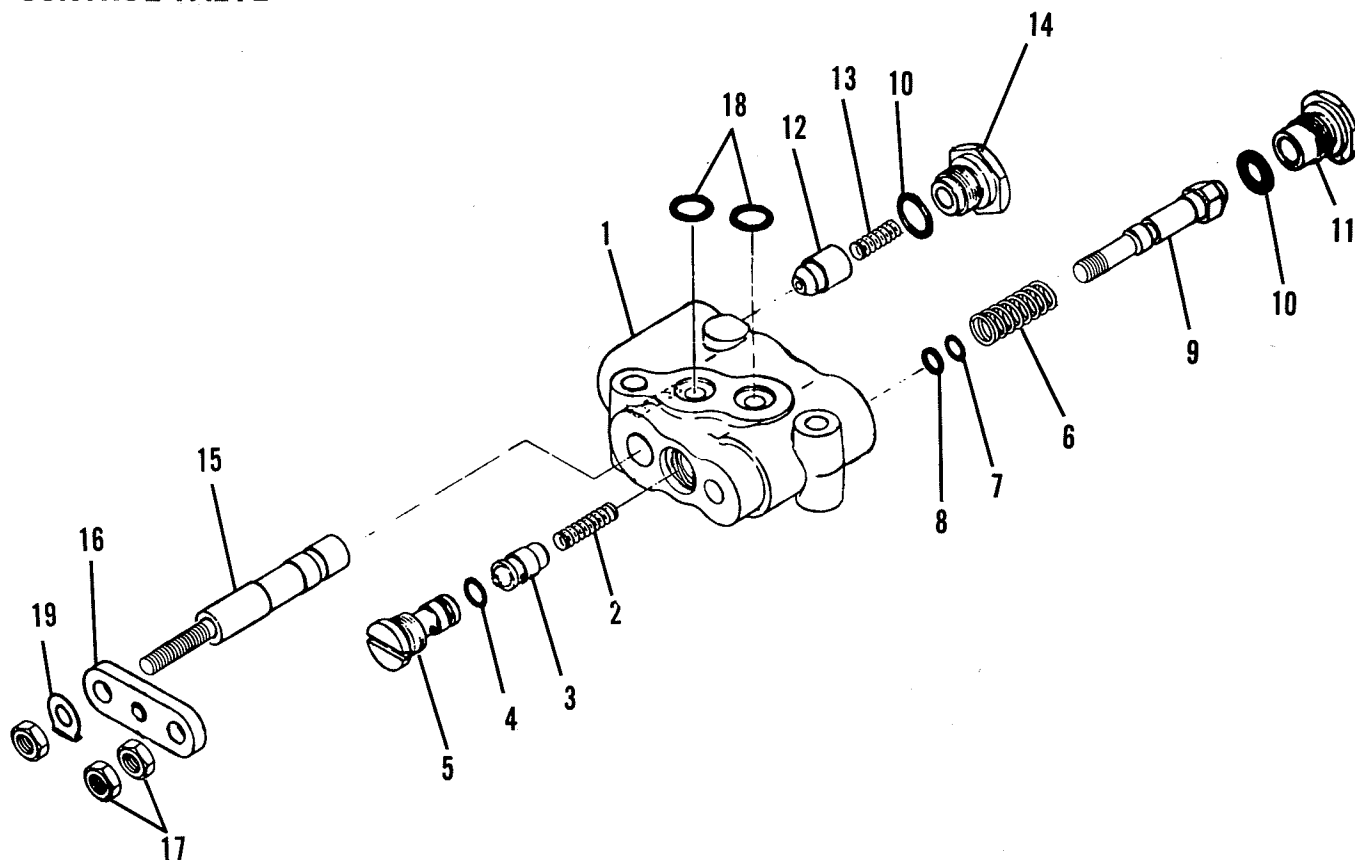
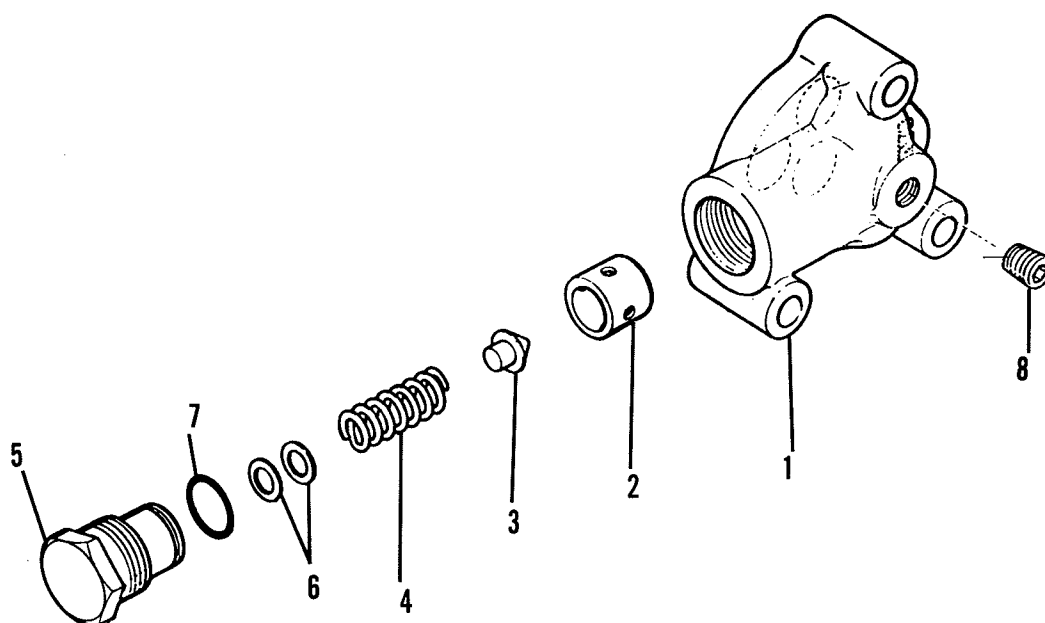
## LINKAGE &amp; VALVE





LINKAGE & VALVE

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098189	1	COVER ASY. (Refer to COVER ASY. Group for Components)
2	2098337	1	O-RING
3	934040	5	LOCKWASHER, m8
4	934089	3	CAPSCREW, m8 x 20
5	2098185	5	O-RING
6	2098305	1	BOLT, stopper
7	2097874	2	WASHER, seal
8	934058	2	NUT, m6
9	2098597	—	WASHER, thrust
10	2098598	—	WASHER, thrust
11	2098187	2	WASHER, countersunk
12	2098188	1	ROD, lever
13	919326	1	WASHER
14	934059	2	E-RING
15	2098192	1	VALVE, control (Refer to VALVE Group for Components)
16	934029	1	NUT, m10
17	2098191	1	BOLT, adjusting
18	2098193	2	CAPSCREW
19	934028	2	NUT, m8
20	2098196	1	TURNBUCKLE
21	2098197	1	LINK, working (A)
22	2098201	1	ROD, guide
23	2098199	2	NUT
24	923360	2	PIN, cotter
25	2098198	2	CAPSCREW
26	2098195	1	TURNBUCKLE
27	2098194	1	LINK, working (B)
28	2098200	1	GUIDE, link (A)

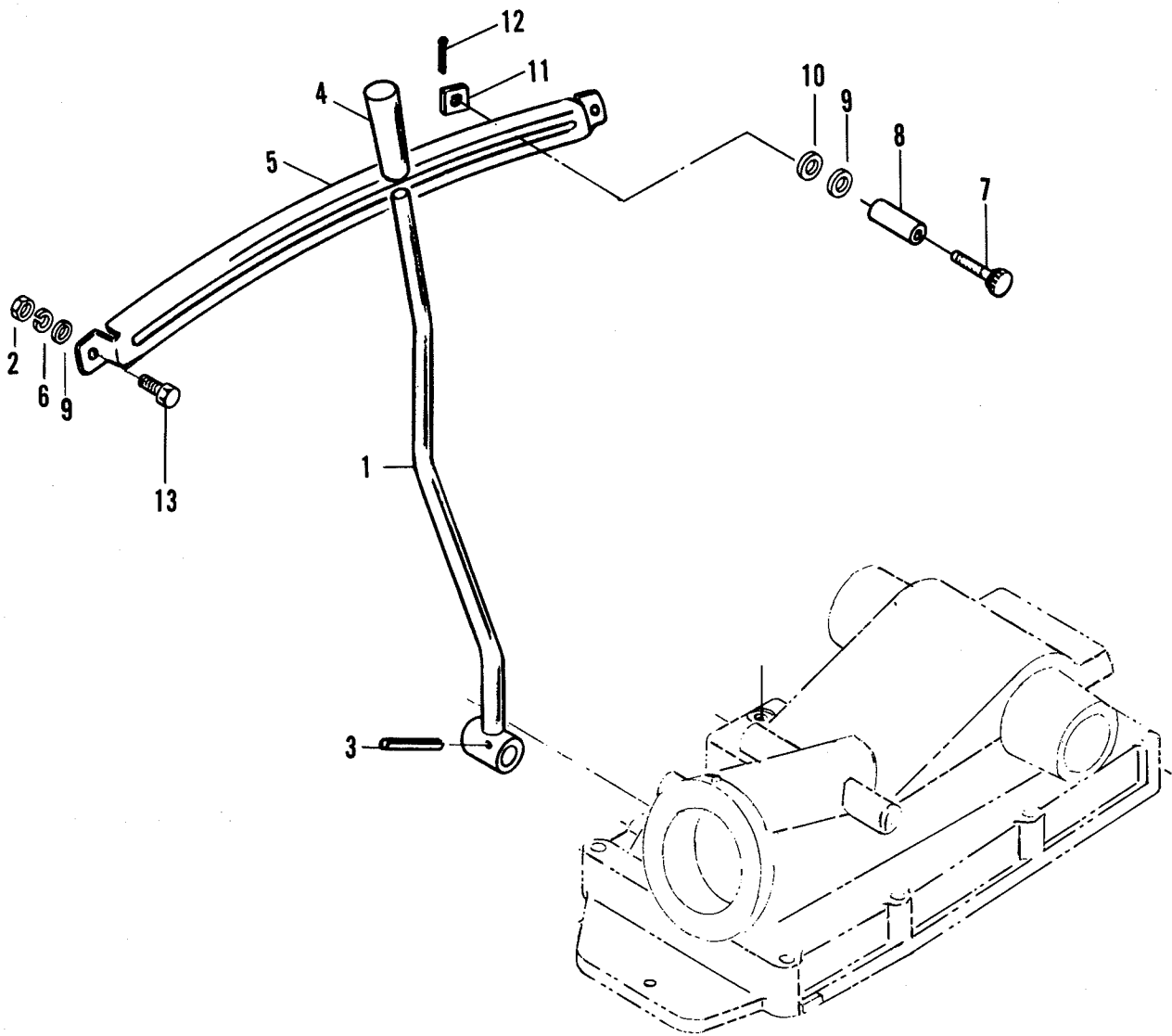
**5020 TRACTOR  
HYDRAULIC SYSTEM****CONTROL VALVE****LIFT HOUSING COVER**

CONTROL VALVE

ITEM	NUMBER	QTY.	DESCRIPTION
—	2098192	—	VALVE CONTROL
1	2098384	1	BODY ASY. (Incl. SPOOL)
2	2098385	1	SPRING
3	2098386	1	PLUG, spring
4	2098387	1	O-RING
5	2098388	1	SEAT
6	2098389	1	SPRING
7	2098390	1	O-RING
8	2098391	1	RING, back-up
9	2098392	1	POPPET
10	2098393	2	O-RING
11	2098394	1	SEAT, poppet
12	2098395	1	PLUG, spring
13	2098396	1	SPRING, small
14	2098397	1	SEAT, spring
15	-----	1	SPOOL (Not serviced; order 2098384 BODY ASY.)
16	2098398	1	PLATE, spool
17	2098399	3	NUT
18	2098400	2	O-RING, body asy.
19	2098401	1	LOCK, plate

LIFT HOUSING COVER

ITEM	NUMBER	QTY.	DESCRIPTION
—	2098189	—	COVER ASY. - complete
1	-----	1	BODY, valve (Not Serviced; Order 2098189 Complete VALVE ASY.)
2	2098416	1	SEAT
3	2098417	1	POPPET
4	2098418	1	SPRING
5	2098419	1	PLUG
6	2098420	1	SHIM
7	2098421	1	O-RING
8	2098422	1	PLUG

CONTROL  
HYDRAULIC LIFT

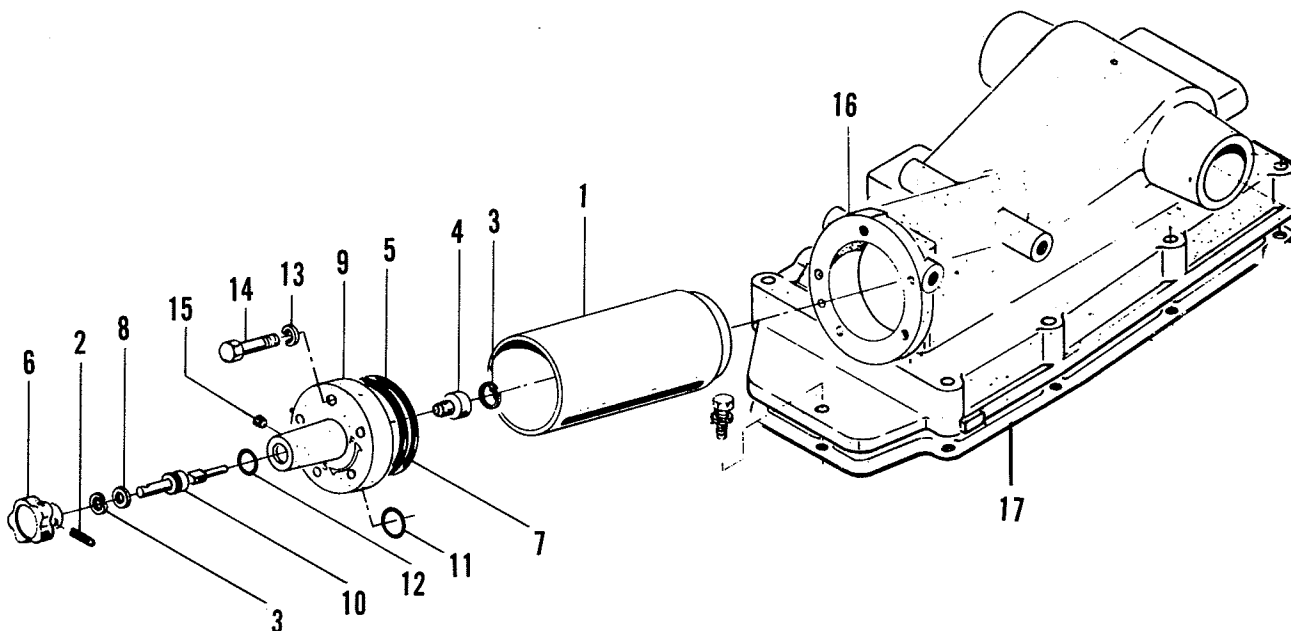
**5020 TRACTOR**  
**HYDRAULIC SYSTEM**

**131**

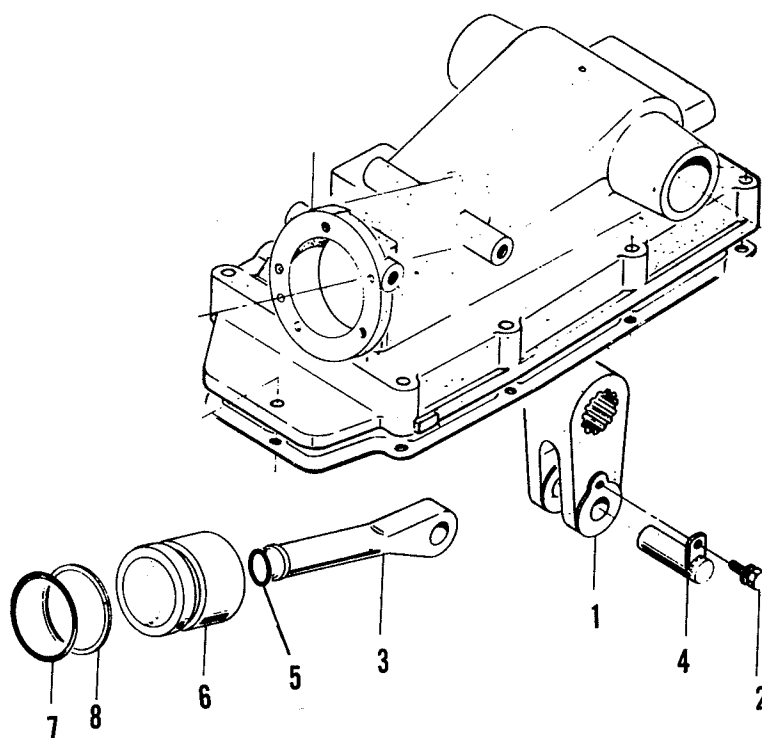
**CONTROL**  
**HYDRAULIC LIFT**

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098183	1	LEVER
2	934028	2	NUT, m8
3	934057	1	PIN, m6 x 24, roll
4	2098182	1	KNOB, control
5	2098206	1	GUIDE, lever
6	934040	2	LOCKWASHER, m8
7	2098202	2	KNOB, stopper
8	2098204	2	SPACER
9	919326	4	WASHER
10	2098205	2	GASKET, stopper knob
11	2098203	2	NUT, stopper
12	918448	2	PIN, cotter
13	934015	2	CAPSCREW, m8 x 16

## HYDRAULIC CYLINDER



## PISTON



HYDRAULIC CYLINDER

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098169	1	LINER, housing
2	934001	1	PIN, m4 x 20, roll
3	934061	2	RING, snap
4	2098170	1	VALVE
5	2098172	1	O-RING
6	2098179	1	GRIP, adjust
7	2098173	1	O-RING
8	919326	1	WASHER
9	2098174	1	COVER, housing
10	2098178	1	SCREW, lowering adjust
11	2098171	1	O-RING
12	2098177	1	O-RING
13	934041	5	LOCKWASHER, m10
14	2098175	5	CAPSCREW
15	2098176	1	PLUG
16	2098149	1	HOUSING, lift
17	2098167	1	GASKET, housing

PISTON

ITEM	NUMBER	QTY.	DESCRIPTION
1	2098161	1	ARM, lever
2	934048	1	CAPSCREW, m10 x 20
3	2098163	1	ROD, push
4	2098162	1	PIN
5	2098181	1	O-RING
6	2098164	1	PISTON
7	2098166	1	GASKET
8	2098165	1	RING

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